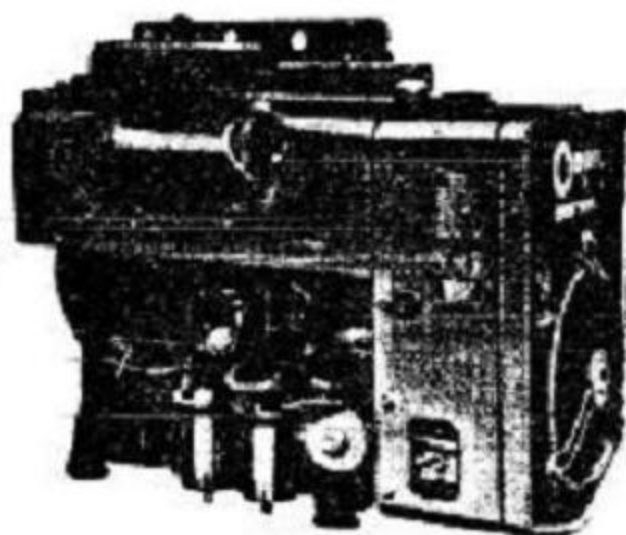


The following catalog  
has gaps in its page  
numbers, or doesn't  
have any numbers.  
We have chosen to  
leave the page  
numbering in the  
order that Acrobat  
assigns it.

# Parts Catalog

---

SERIES  
**DJC**  
Engine



**APPROVED**

# GENERAL INFORMATION

## INSTRUCTIONS FOR ORDERING REPAIR PARTS

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, please furnish all information requested.

Always refer to the nameplate on your unit.

1. Always give the MODEL, SPEC NO. and SERIAL NO.

The diagram shows a rectangular nameplate with rounded corners and two circular mounting holes at the top. The Onan logo is prominently displayed at the top center. Below the logo is a large rectangular box labeled "MODEL AND SPEC NO.". At the bottom left, the text "SERIAL NO." is followed by a smaller rectangular box for the serial number. The entire nameplate is enclosed in a double-line border.

M-1149

For handy reference, insert "YOUR" nameplate information in the spaces above.

2. Do not order by reference number; always use part number and description.
3. Give the part number, description and quantity needed of each item. If an older part cannot be identified, return the part prepaid to your dealer or nearest Onan Parts and Service Center. Print your name and address plainly on the package. Write a letter to the same address stating the reason for returning the part.
4. State definite shipping instructions. Any claim for loss or damage to your unit in transit should be filed promptly against the transportation company making the delivery. Shipments are complete unless the packing list indicates items are back ordered.

Prices are purposely omitted from this Parts Catalog due to the confusion resulting from fluctuating costs, import duties, sales taxes, exchange rates, etc.

For current parts prices, consult your Onan Dealer, Distributor or Parts and Service Center.

"En esta lista de partes los precios se omiten de proposito, ya que bastante confusion resulto de fluctuaciones de los precios, derechos aduanales, impuestos de venta, cambios extrajeros, etc."

Consiga los precios vigentes de su distribuidor de productos "ONAN."

# INDEX

	LOCATION	
GENERAL INFORMATION .....	A2	
INTRODUCTION .....	A4	
STANDARD ENGINE PARTS SECTION		
Base, Oil .....	A6,A7	
Block, Cylinder .....	A6,A7	
Camshaft .....	A11	
Cleaner, Air .....	B4,B5	
Crankshaft .....	A13	
Damper, Breather (Spec S) .....	A10	
Filter, Fuel .....	B4,B5	
Flywheel .....	A13	
Gearcase .....	A5	
Governor .....	B3	
Head, Cylinder - Valve and Rocker .....	A8,A9	
Housing, Air .....	B10	
Injection System .....	B6,B7	
Manifold, Exhaust .....	A14	
Oil System .....	B8,B9	
Piston and Connecting Rod .....	A12	
Pump, Fuel .....	B6,B7	
Service Kits and Miscellaneous .....	B11	
Solenoid, Stop .....	A14	
Starter .....	B1	
Starter Parts .....	B2	OPTION NUMBER
OPTIONAL EQUIPMENT PARTS SECTION		
Alternator, Flywheel (WICO) - Begin Spec V .....	C2	1
Alternator, Flywheel (WICO) - Specs A Through U .....	C3	2
Cleaner, Air - Oil Bath .....	C4	4
Clutch (Rockford) .....	C10	10
Clutch (Twin Disc) .....	C10	11
Control (Engine) .....	C4	3
Control, Governor - Variable Speed .....	C5	5
Control, Governor - Two Speed .....	C6	6
Discharge, Air Shutter - Begin Spec S .....	C7	7
Discharge, Air Shutter - Spec A Through R .....	C8	8
Miscellaneous Options .....	C13	
Starter Parts - 24 Volt (191-0443) .....	C11	
Switch, High Air Temperature .....	C12	
Switch, Low Oil Pressure .....	C9	9

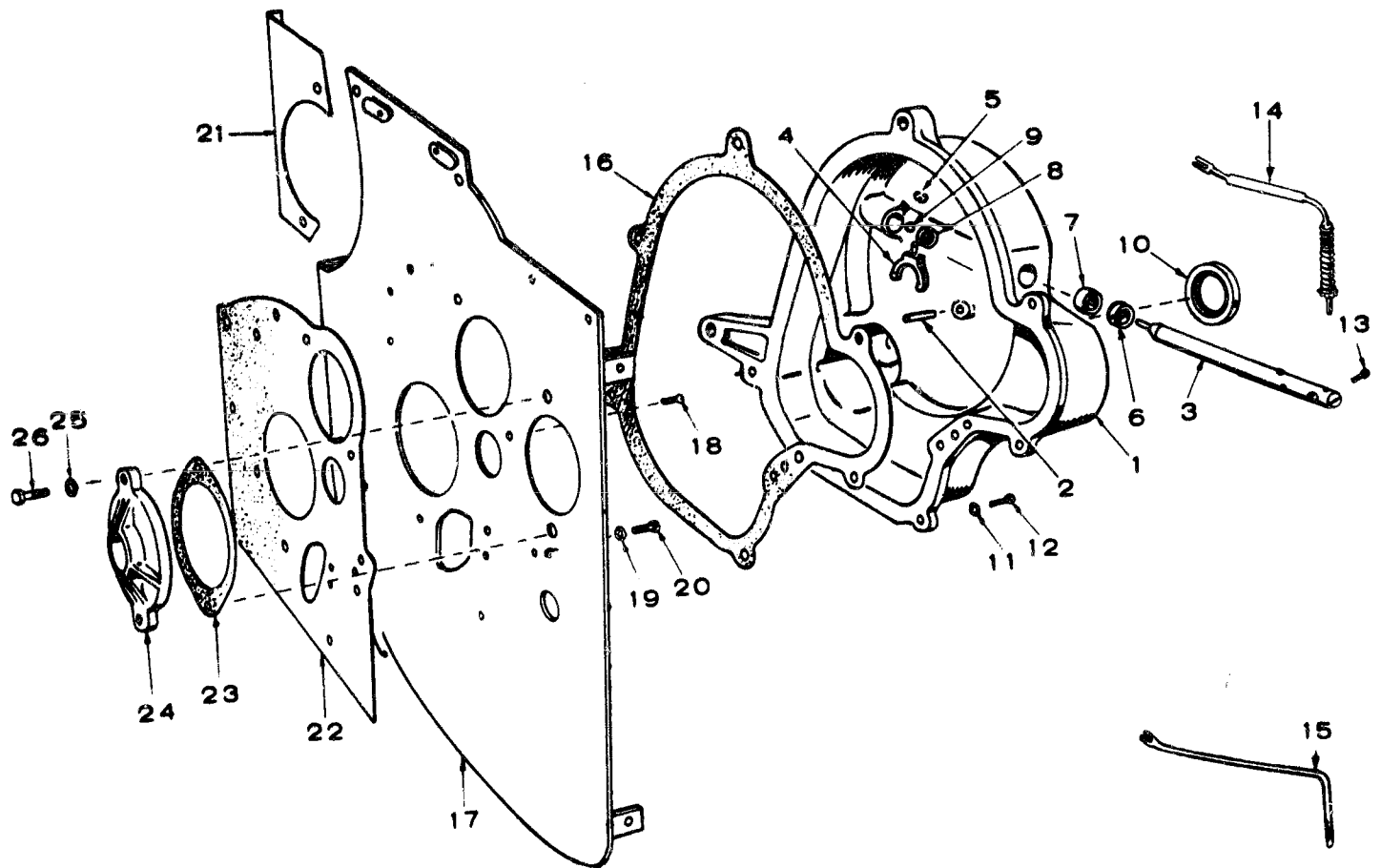
# INTRODUCTION

This catalog applies to the standard industrial DJC Engines and factory installed options. Parts are arranged in groups of related items. Each illustrated part is identified by a reference number corresponding to the same reference number in the parts list for that group. Parts illustrations are typical. Using the *Model* and *Spec No.* from the engine nameplate, select the Parts that apply to your Engine Model and Spec No. Unless otherwise mentioned in the description, parts are interchangeable between models. Right and left engine sides are determined by *facing* the blower end (front) of the engine. The specification letter advances (A to B, B to C, etc.) with manufacturing changes.

## STANDARD ENGINE PARTS SECTION

This section contains the engine parts used on standard engines listed in the Engine Data table.

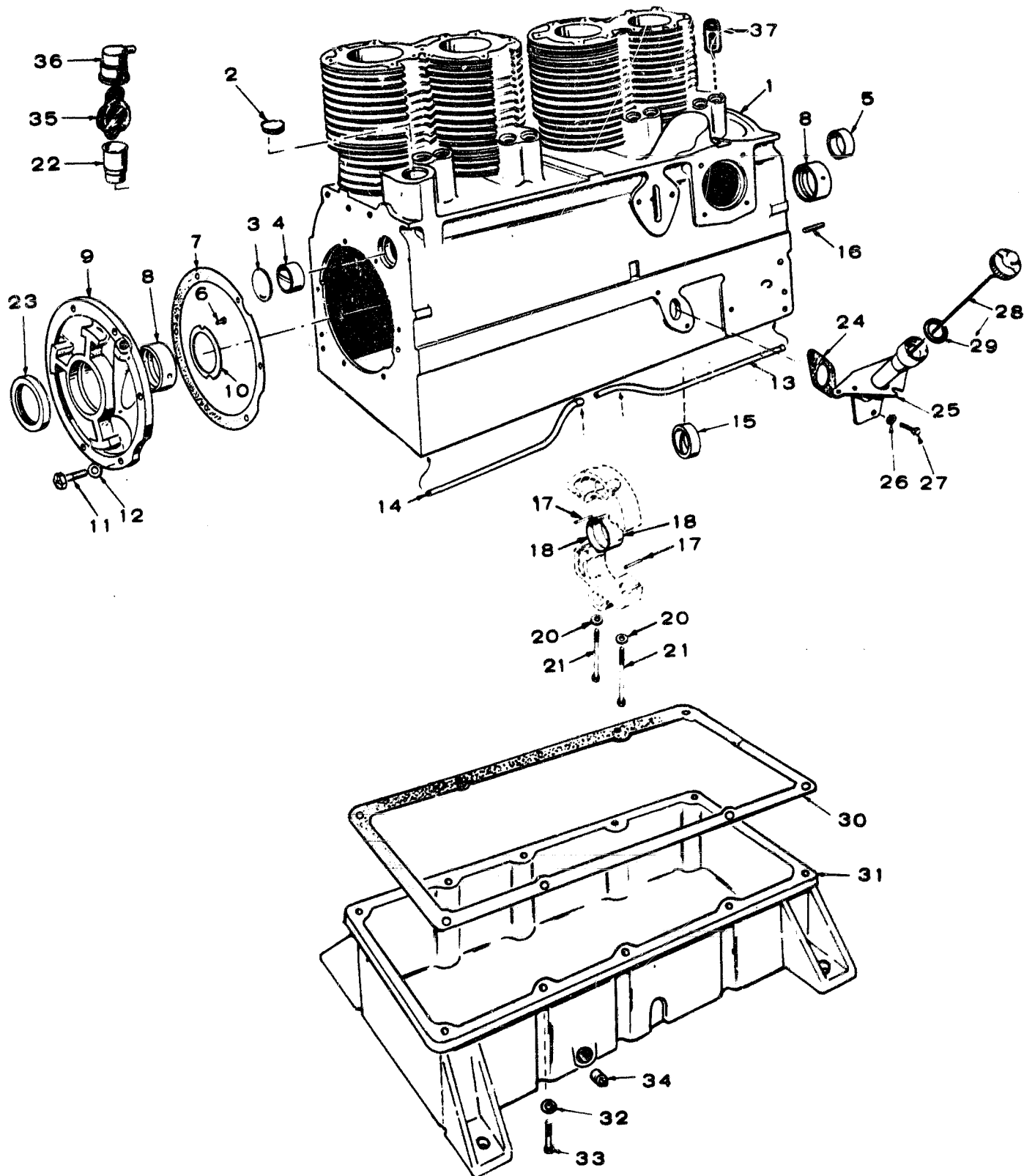
# GEARCASE



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	GEARCASE ASSEMBLY (Includes parts marked *)			15	150-0847	1	Arm, Governor (Specs A Through Q)
	103-0366	1	Begin Spec V	16	103-0251	1	Gasket, Gearcase
	103-0277	1	Specs A Through U	17	103-0272	1	Backplate
2	516-0111	1	*Pin, Roll - Cup Stop	18	814-0148	2	Screw, Machine - Flat Head (1/4-20 x 1/2")
3	150-0838	1	*Shaft, Governor	19	850-0045	1	Washer, Lock - Spring (5/16")
4	150-0777	1	*Yoke, Governor	20	800-0026	1	Screw, Cap - Hex Head (5/16-18 x 3/4")
5	518-0129	1	*Ring, Yoke Retaining	21	134-1532	1	Baffle, Backplate
6	509-0088	1	*Seal, Oil	22	103-0218	1	Gasket, Backplate
7	510-0048	1	*Bearing, Governor Shaft (1/2")	23	160-0721	1	Gasket, Cover
8	510-0082	1	*Bearing, Governor Shaft (1/4")	24	103-0221	1	Cover, Backplate Opening
9	510-0043	1	*Ball, Governor Shaft Thrust	25	850-0050	2	Washer, Lock - Spring (3/8")
10	509-0087	1	*Seal, Oil	26	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
11	850-0045	5	Washer, Lock - Spring (5/16")				
12	SCREW, CAP - HEX HEAD						
	800-0028	1	5/16-18 x 1"				
	110-0879	4	5/16-18 x 1-1/4"				
13	815-0176	1	Screw, Cap - Hex Head (#8-32 x 1/2")				
14	150-1095	1	Arm Assembly, Governor (Begin Spec R)				

\* - Parts included in Gearcase Assembly.

# CYLINDER BLOCK AND OIL BASE



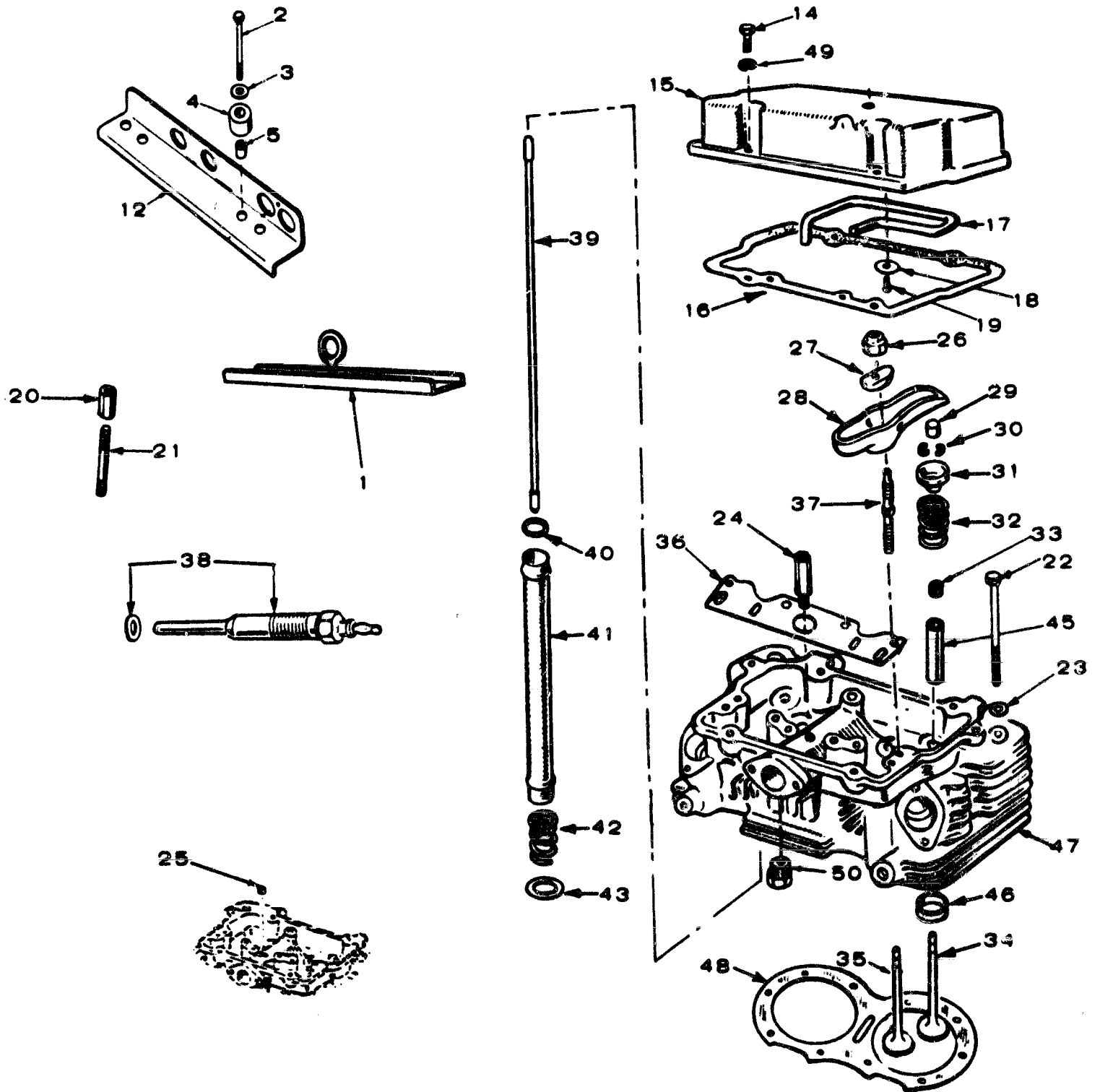
## CYLINDER BLOCK AND OIL BASE

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	110-1332	1	Block Assembly, Cylinder (Includes parts marked *)	20	526-0035	2	*Washer, Flat (17/32" ID x 7/8" OD x 1/8 Thick)
2	517-0103	1	*Plug, Core Hole Begin Spec T	21	101-0342	2	*Bolt, Cap - Hex Head (Special)
3	517-0053	1	*Plug, Camshaft Opening	22	123-0645	1	*Tube, Breather - Spec A Through S
4	101-0365	1	*Bearing, Precision - Camshaft Rear	23	509-0086	1	Seal, Oil Crankshaft Rear
5	101-0363	1	*Bearing, Precision - Camshaft Front	24	123-0667	1	Gasket, Oil Fill Tube
6	516-0072	4	*Pin, Crankshaft Thrust Washer	25	TUBE, OIL FILL		
7	101-0386	1	*Gasket and Shim Kit, Bearing		123-1086	1	Begin Spec S
8	BEARING, PRECISION - MAIN (Front and Rear)				123-0661	1	Specs A Through R
	101-0359	2	*Standard	26	850-0045	2	Washer, Lock - Spring (5/16")
	101-0359-02	2	.002" Undersize	27	800-0026	2	Screw, Cap - Hex Head (5/16-18 x 3/4")
	101-0359-10	2	.010 Undersize	28	CAP AND INDICATOR (Includes Gasket)		
	101-0359-20	2	.020" Undersize		123-1056	1	Begin Spec S
	101-0359-30	2	.030" Undersize		123-0698	1	Specs A Through R
9	101-0337	1	*Plate, Rear Bearing	29	123-0191	1	Gasket, Oil Fill Cap
10	104-0420	2	*Washer, Thrust - Crankshaft	30	102-0475	1	Gasket, Oil Base
11	805-0019	6	*Bolt, Plate - Rear Bearing Plate - Special	31	102-0477	1	Base, Oil
12	526-0245	6	*Washer, Flat (.391 ID x .625 OD x .0598 Thick)	32	850-0055	10	Washer, Lock - Spring (7/16")
13	120-0586	1	*Tube, Crankcase Oil - Front	33	800-0072	10	Screw, Cap - Hex Head (7/16-14 x 1-1/4")
14	120-0585	1	*Tube, Crankcase Oil - Rear	34	505-0056	1	Plug, Oil Drain (1/2")
15	101-0364	1	*Bearing Precision - Camshaft Center	35	123-1283	1	Filter, Breather Specs A Through R
16	516-0141	2	*Pin, Gear Cover Alignment	36	123-0787	1	Cap - Breather Tube Specs A Through S
17	516-0149	2	Pin, Center Main Bearing Housing	37	TAPPET, VALVE		
18	BEARING HALF, PRECISION - CENTER MAIN				115-0195	8	*Begin Spec P
	101-0361	2	*Standard		115-0132	8	Specs A thru N
	101-0361-02	2	.002" Undersize				
	101-0361-10	2	.010" Undersize				
	101-0361-20	2	.020" Undersize				
	101-0361-30	2	.030" Undersize				

\* - Parts Included in 110-1332 Cylinder Block Assembly



# **CYLINDER HEAD, VALVE AND ROCKER**



## CYLINDER HEAD, VALVE AND ROCKER

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1		1	Bar, Lifting - Specs A thru H (Order 403-0690 Bracket (2) 800-0091 Screws (2) 850-0080 Lock Washers)	32	110-1221	8	†Spring, Valve
2	800-0094	2	Screw, Cap - Hex Head (1/2-13 x 2")	33	509-0132	4	Seal, Oil - Valve Stem
3	526-0100	2	Washer, Flat (9/16" ID x 1-3/8" OD x 7/64" Thk)	34	110-1278	4	†Valve, Exhaust
4	402-0381	2	Cushion, Vibration	35	110-1871	4	Valve, Intake
5	402-0362	2	Spacer	36	115-0196	2	†Guide, Push Rod
12	403-0690	1	Bracket, Lifting	37	115-0152	8	†Stud, Rocker Arm
14	800-0030	8	Screw, Cap - Hex Head (5/16-18 x 1-1/4")	38	333-0106	4	Kit, Glow Plug (Includes Gasket 110-0546)
15	115-0134	2	Cover Assembly, Rocker (Includes Parts Marked **)	39	115-0149	8	Rod, Push
16	115-0130	2	**Gasket, Rocker Cover Mtg.	40	509-0084	8	Seal, Push Rod Shield
17	120-0628	2	**Line, Oil	41	115-0151	8	Shield, Push Rod
18	526-0130	2	**Washer, Flat (17/64" ID x 1" OD x 1/16" Thk)	42	115-0146	8	Spring, Push Rod Shield
19	809-0042	2	**Screw, Self Tapping - Round Head (#10 x 3/8")	43	115-0155	8	Washer, Flat - Push Rod Shield
20	403-0620	2	Nut, Extension - Spec A through H	45	GUIDE, VALVE		
21	520-0626	2	Stud, Cylinder Head - Spec A through H	110-1869	4	†Intake	
22	SCREW, CAP - HEX HEAD			110-1870	4	†Exhaust	
	110-1264	10	Special	46	INSERT, VALVE SEAT		
	800-0503	12	(3/8-16 x 1-3/4")	110-1268	8	†Standard	
23	526-0174	12	Washer, Flat (.406" ID x .781" OD x .1345" Thk)	110-1268-02		.002" Oversize	
24	123-1140	2	†Vent, Standpipe - Begin Spec S	110-1268-05		.005" Oversize	
25	505-0008	2	*Plug, Pipe - Spec A through N (Replacement Part with Cylinder Head)	110-1268-10		.010" Oversize	
25	505-0274	2	†Plug, Hex - Begin Spec P	110-1268-25		.025" Oversize	
26	115-0150	8	Locknut, Rocker Arm	47	HEAD ASSEMBLY, CYLINDER (Replacement) Without Valves (Includes Parts Marked *)		
27	115-0127	8	Ball, Pivot	110-2941	2	Begin Spec P	
28	ARM, ROCKER			110-2701	2	Prior to Spec P	
	115-0128	4	Exhaust Valves			With Valves (Includes Parts Marked †)	
	115-0129	4	Intake Valves	110-2940	2	Begin Spec P	
29	110-0859	8	Cap, Valve Stem	110-2993	2	Prior to Spec P	
30	110-0858	16	†Lock, Valve Stem	48	110-1223	2	Gasket, Cylinder Head
31	110-1220	8	†Retainer, Valve Spring	49	850-0045	8	Washer, Lock - Spring (5/16")
				50	502-0281	2	†Connector, Inverted Male
							* - Parts Included in 110-2701 & 110-2941 Assembly.
							† - Parts Included in 110-2940 & 110-2993 Assembly.
							** - Parts Included in Rocker Cover Assembly

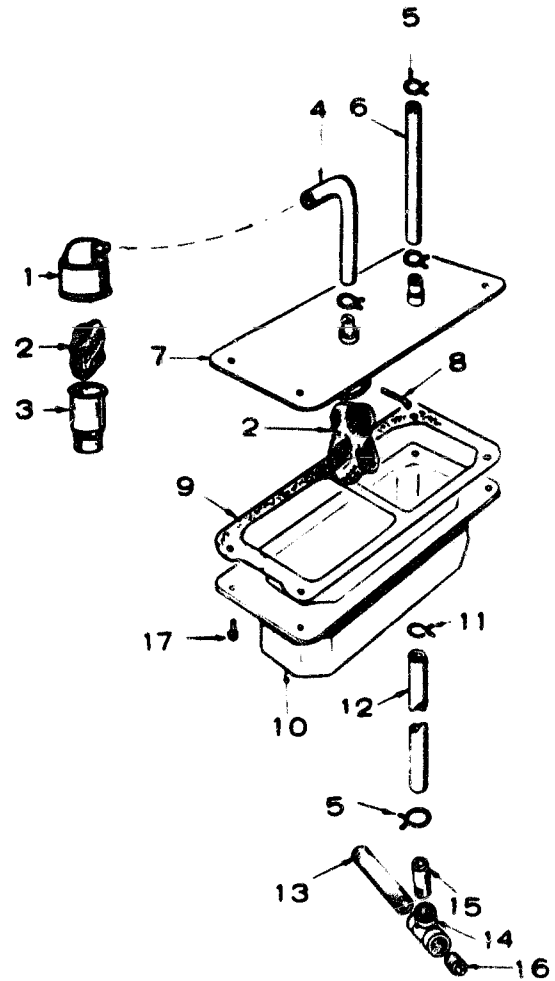
\* - Parts Included in 110-2701 & 110-2941 Assembly.

† - Parts Included in 110-2940 & 110-2993 Assembly.

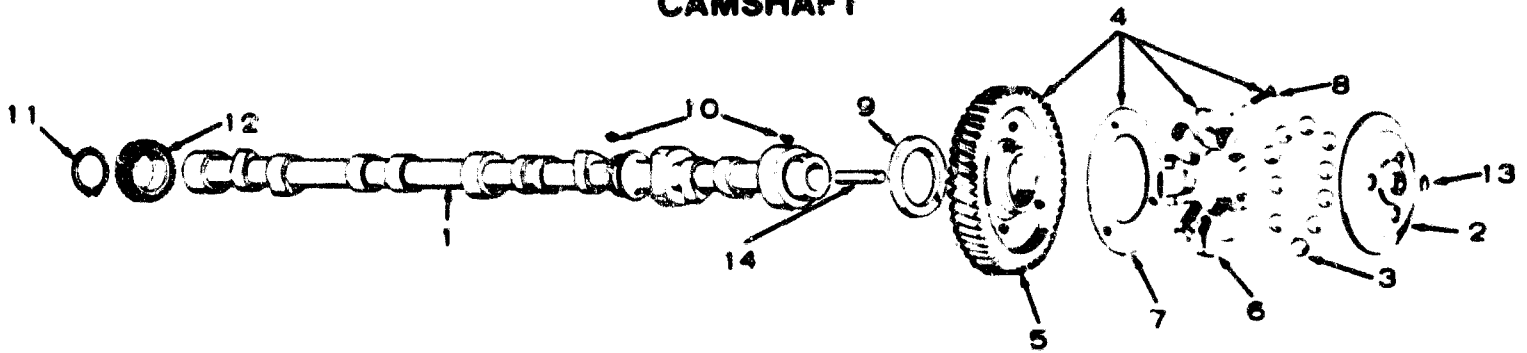
\*\* - Parts Included in Rocker Cover Assembly

## BREATHER DAMPER (SPEC S)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1		1	Cap, Breather Tube (See Cylinder Block & Oil Base)
2	123-1283	2	Filter, Breather
3		1	Tube, Breather (See Cylinder Block & Oil Base)
4	503-0562	1	Hose, Rubber
5	503-0170	4	Clamp, Hose
6	503-0563	1	Hose, Rubber
7	123-1047	1	Cover, Breather Pulsation Damper
8	516-0177	1	Pin, Cotter - Filter Retainer
9	123-1049	1	Gasket, Breather Damper
10	123-1061	1	Damper, Breather
11	503-0197	2	Clamp, Hose
12	503-0564	1	Hose, Rubber - Overflow
13	505-0681	1	Nipple, Pipe - Oil Drain
14	505-0682	1	Tee, Pipe - Oil Drain
15	505-0683	1	Nipple, Half - Pipe
16		1	Plug, Pipe - Oil Drain (See Cylinder Block & Oil Base)
17	815-0172	4	Screw, Cap - Hex Head (#10-32 x 1")



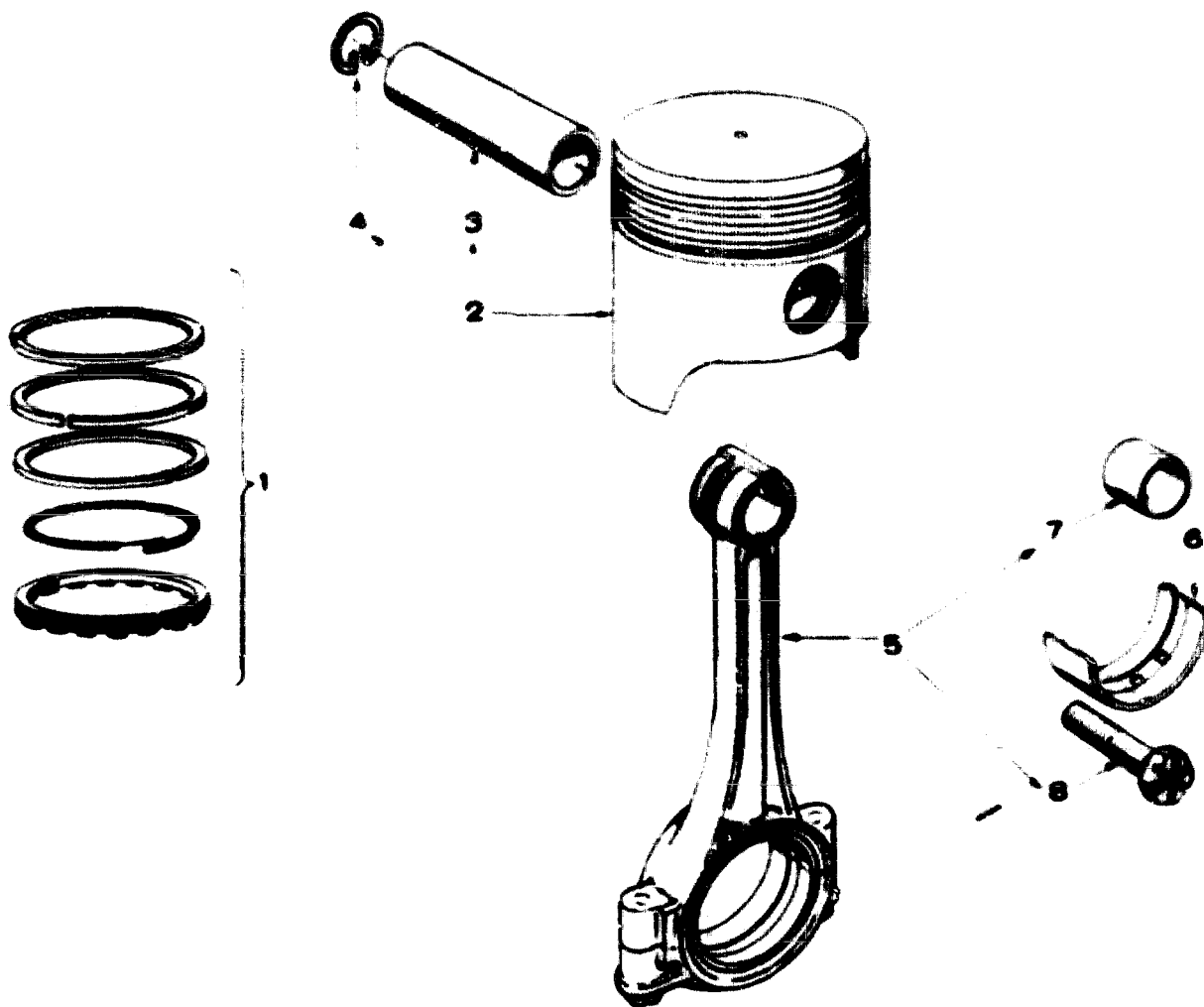
# CAMSHAFT



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CAMSHAFT - INCLUDES PIN		
	105-0240	1	Spec A Thru N
	105-0274	1	Begin Spec P
2	150-0775	1	Cup, Governor
3	510-0046	10	Ball, Fly
4	105-0218	1	Gear Assembly, Camshaft (Consists of Following Parts Marked with *)
5	105-0465	1	*Gear, Camshaft
6	150-1674	1	*Spacer, Governor Ball
7	150-0773	1	*Plate, Governor Ball
8	815-0506	3	*Screw, Governor Ball Spacer
9	105-0205	1	Washer, Thrust
10	515-0001	2	Key, Woodruff
11	518-0195	1	Ring, Retaining
12	147-0142	1	Gear, Drive - Injection Pump
13	150-0078	1	Ring, Retaining
14	150-0075	1	Pin, Center - Camshaft
	150-1842	1	Kit, Governor Spacer (Consists of 1 - 150-1674 Spacer, 3 - 815-0506 Screw)

\* - Included in Camshaft Gear Assembly.

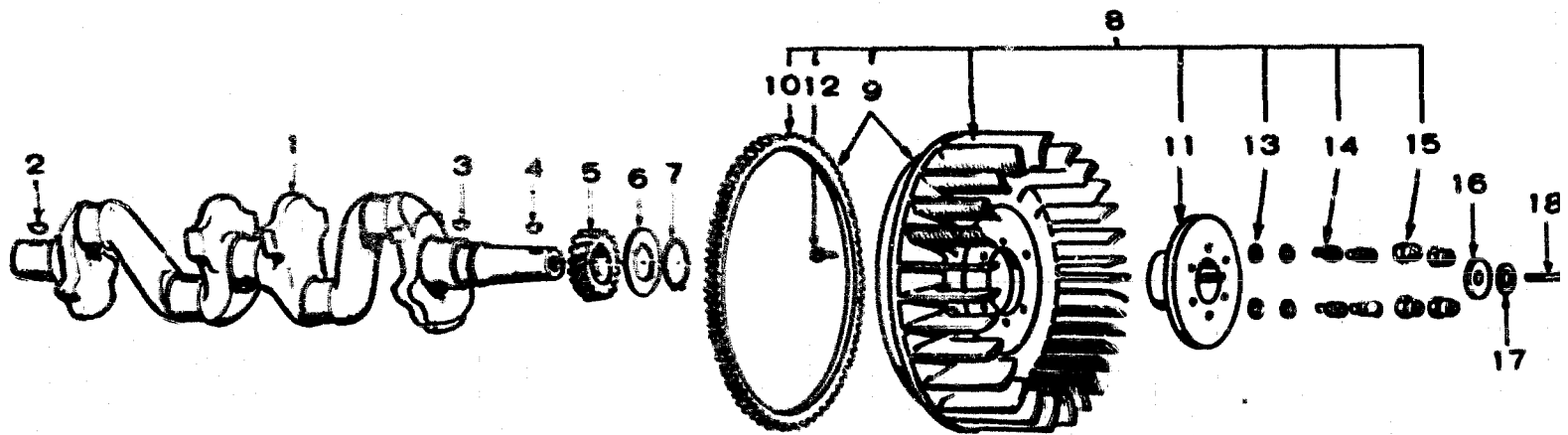
## PISTON AND ROD



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	RING SET, PISTON		
	113-0130	4	Standard
	113-0130-05	4	.005" Oversize
	113-0130-10	4	.010" Oversize
	113-0130-20	4	.020" Oversize
	113-0130-30	4	.030" Oversize
	113-0130-40	4	.040" Oversize
2	PISTON AND PIN (INCLUDES RETAINING RINGS)		
			Begin Spec P
	112-0109	4	Standard
	112-0109-05	4	.005" Oversize
	112-0109-10	4	.010" Oversize
	112-0109-20	4	.020" Oversize
	112-0109-30	4	.030" Oversize
	112-0109-40	4	.040" Oversize
			Spec A Through N
	112-0103	4	Standard
	112-0103-10	4	.010" Oversize
	112-0103-20	4	.020" Oversize
	112-0103-30	4	.030" Oversize
	112-0103-40	4	.040" Oversize

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
3	PIN, PISTON		
	112-0093	4	Standard
4	112-0085	8	Ring, Retaining - Pin
5	114-0168	4	Rod Assembly, Connecting (Forged)
6	BEARING HALF, CONNECTING ROD		
	114-0164	8	Standard
	114-0164-02	8	.002" Undersize
	114-0164-10	8	.010" Undersize
	114-0164-20	8	.020" Undersize
	114-0164-30	8	.030" Undersize
7	114-0170	8	Bushing, Piston Pin - Connecting Rod - Semi-Finished
8	805-0012	8	Bolt, Place (Special)

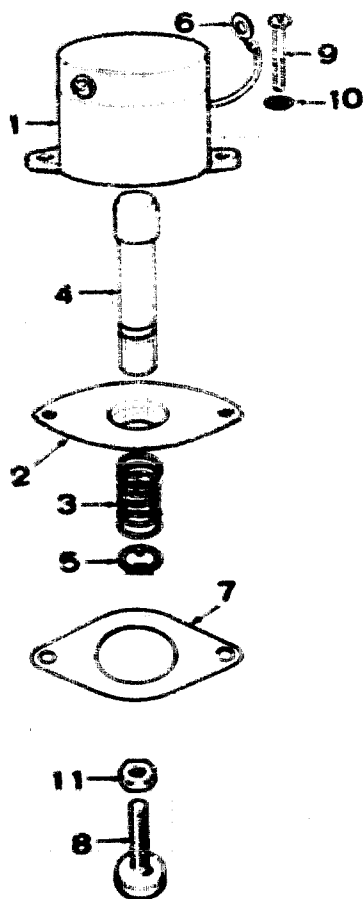
## CRANKSHAFT AND FLYWHEEL



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	104-0463	1	Crankshaft
2	515-0003	1	Key, Crankshaft
3	515-0001	1	Key, Gear
4	515-0153	1	Key, Flywheel
5	104-0418	1	Gear, Crankshaft
6	104-0416	1	Washer, Retaining
7	518-0188	1	Ring, Lock
8	134-1405	1	*Flywheel Assembly (Includes Ring Gear & Hub Assembly)
9	134-1404	1	*Flywheel (Includes Ring Gear)
10	104-0423	1	Gear, Ring
11	134-1401	1	Hub, Flywheel
12	801-0054	4	Screw, Cap - Hex Head (3/8-24 x 2")
13	526-0187	4	Washer, Flat (19/32" ID x 1-1/8" OD x 16 Ga Thk)
14	104-0543	4	Spacer and Belleville Washer Assembly
15	115-0150	4	Nut, Hex - Locking (3/8-24)
16	526-0185	1	Washer, Flat (15/32" ID x 1-1/2" OD x 3/8" Thk)
17	850-0055	1	Washer, Lock - Spring (7/16")
18	800-0500	1	Screw, Cap - Hex Head (7/16-14 x 5-1/2")

**NOTE:** Flywheel differs on engines with Flywheel Alternator and/or Clutch. See Optional parts groups.

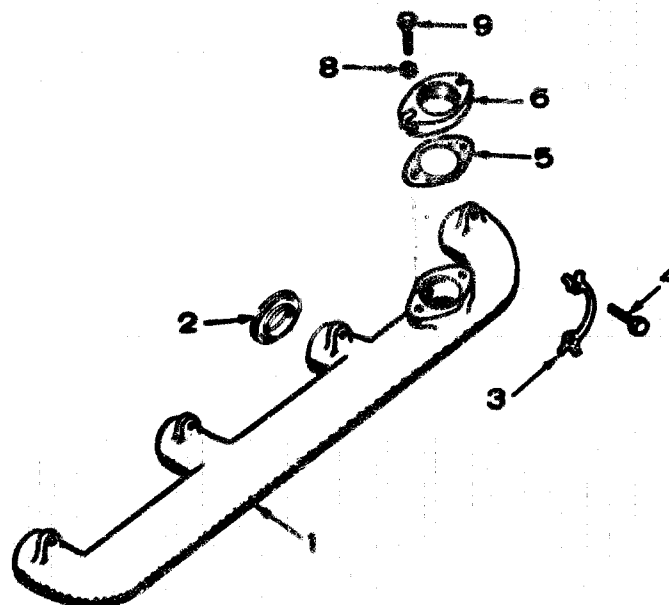
## STOP SOLENOID



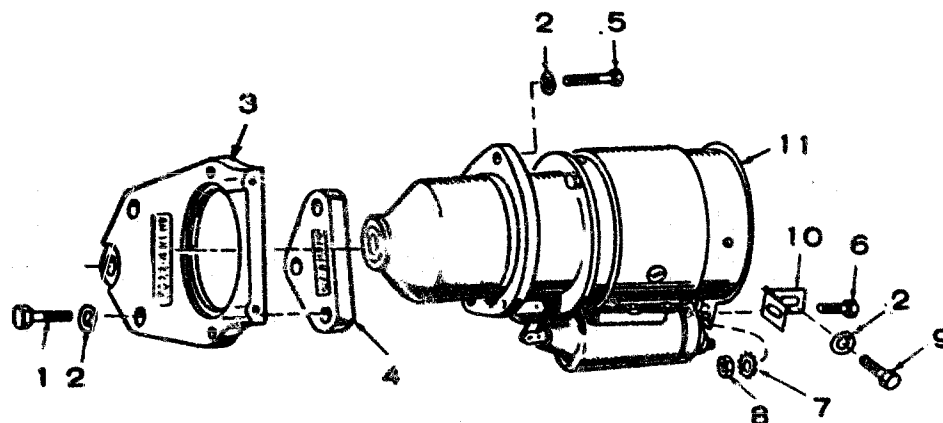
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	307-0628	1	Solenoid, Stopping
2	306-0162	1	Retainer, Plunger
3	306-0161	1	Spring, Plunger
4	306-0159	1	Plunger
5	518-0203	1	Ring, Retaining
6	336-0706	1	Lead, Solenoid Ground
7	150-0963	1	Gasket, Solenoid Mounting
8	306-0242	1	Screw, Cap - Hex Head (1/4-20 x 1")
9	812-0148	2	Screw, Machine - Round Head (1/4-20 x 1/2")
10	850-0040	2	Washer, Lock - Spring (1/4")
11	862-0001	1	Nut, Hex (1/4-20)

## EXHAUST MANIFOLD

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	154-0714	1	Manifold, Exhaust
2	154-0463	4	Gasket, Exhaust Manifold
3	154-1665	4	Tab, Lock
4	114-0022	8	Screw, Cap - Hex Head Hardened (5/16-18 x 1-3/4")
5	154-0738	1	Gasket, Outlet
6	155-0782	1	Flange, Outlet
8	526-0174	2	Washer, Flat (.406" ID x .781" OD x .1345 Thk)
9	800-0052	2	Screw, Cap - Hex Head (3/8-16 x 1-1/2")



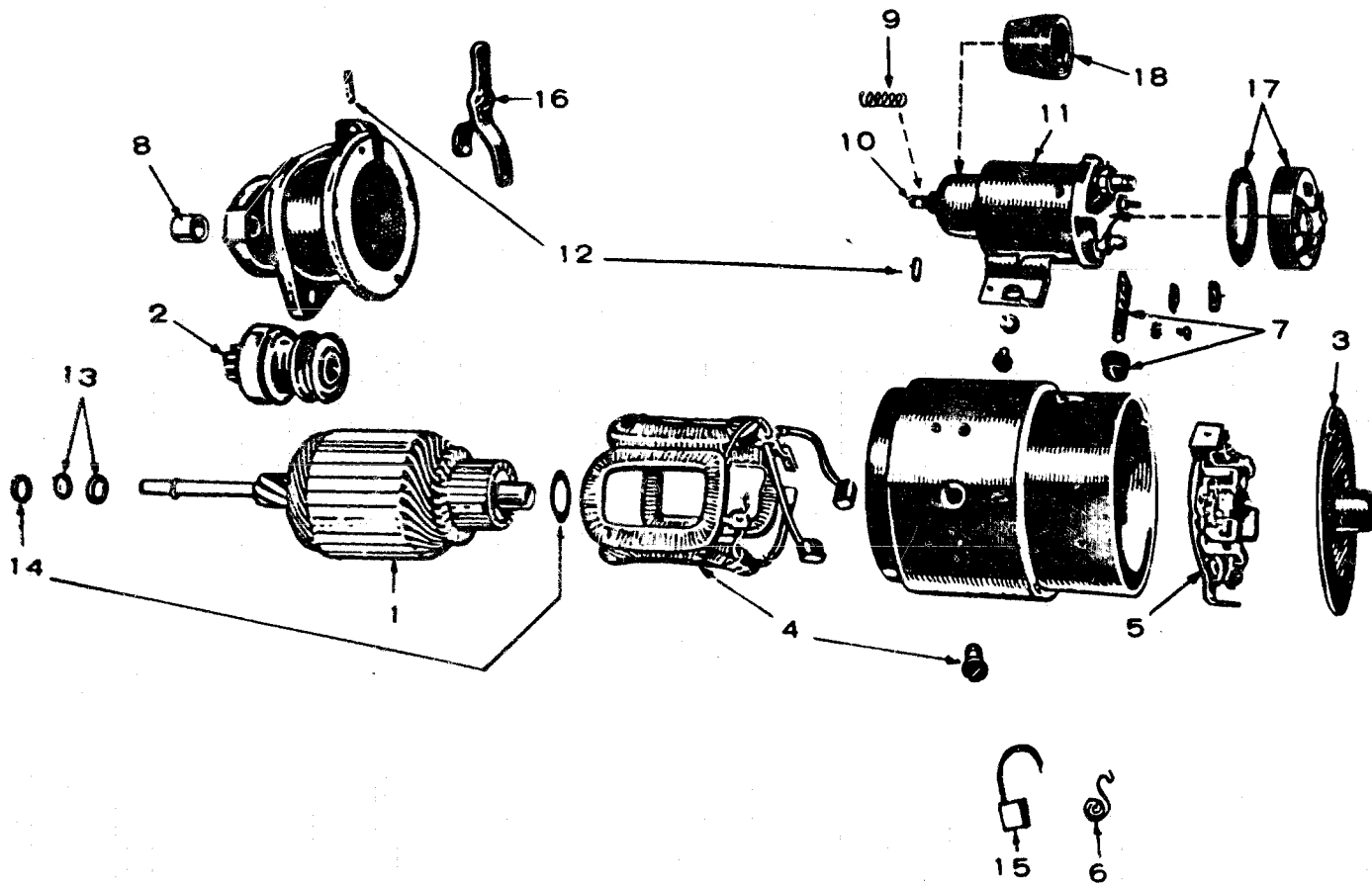
# STARTER



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	800-0054	3	Screw, Cap - Hex Head (3/8-16 x 2")
2	850-0050	7	Washer, Lock - Spring (3/8")
3	191-0512	1	Flange, Mounting
4	191-0311	1	Spacer, Flange
5	800-0051	2	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
6	800-0046	1	Screw, Cap - Hex Head (3/8-16 x 1/2")
7	856-0010	1	Washer, Lock - EIT (3/8")
8	864-0003	1	Nut, Hex (3/8-16)
9	800-0052	2	Screw, Cap - Hex Head (3/8-16 x 1-1/2")
10	191-0365	1	Bracket, Support
11	MOTOR, STARTER		(See Separate Group for Components)
	191-0324	1	12 Volt
	191-0443	1	24 Volt (optional)

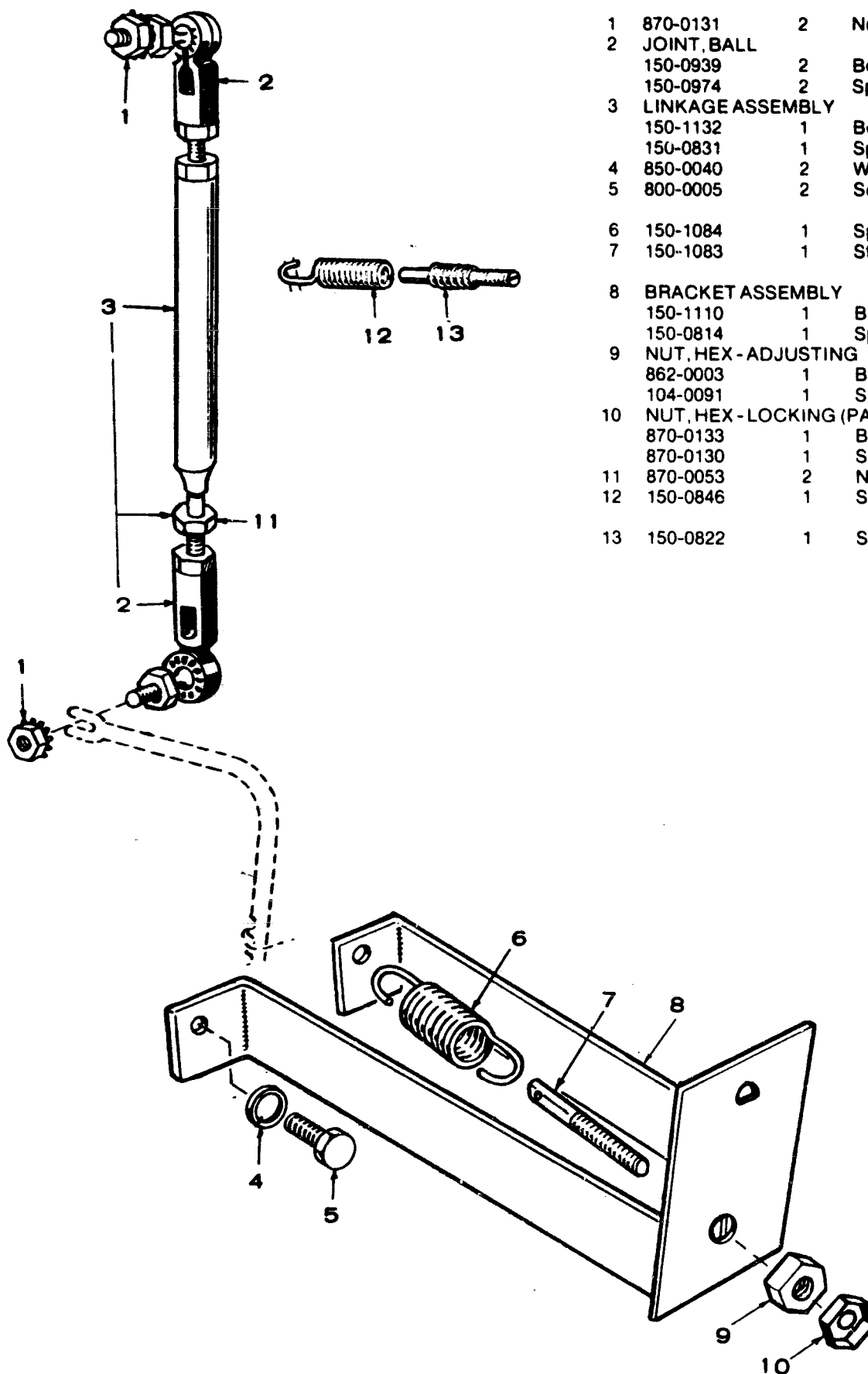


# STARTER PARTS



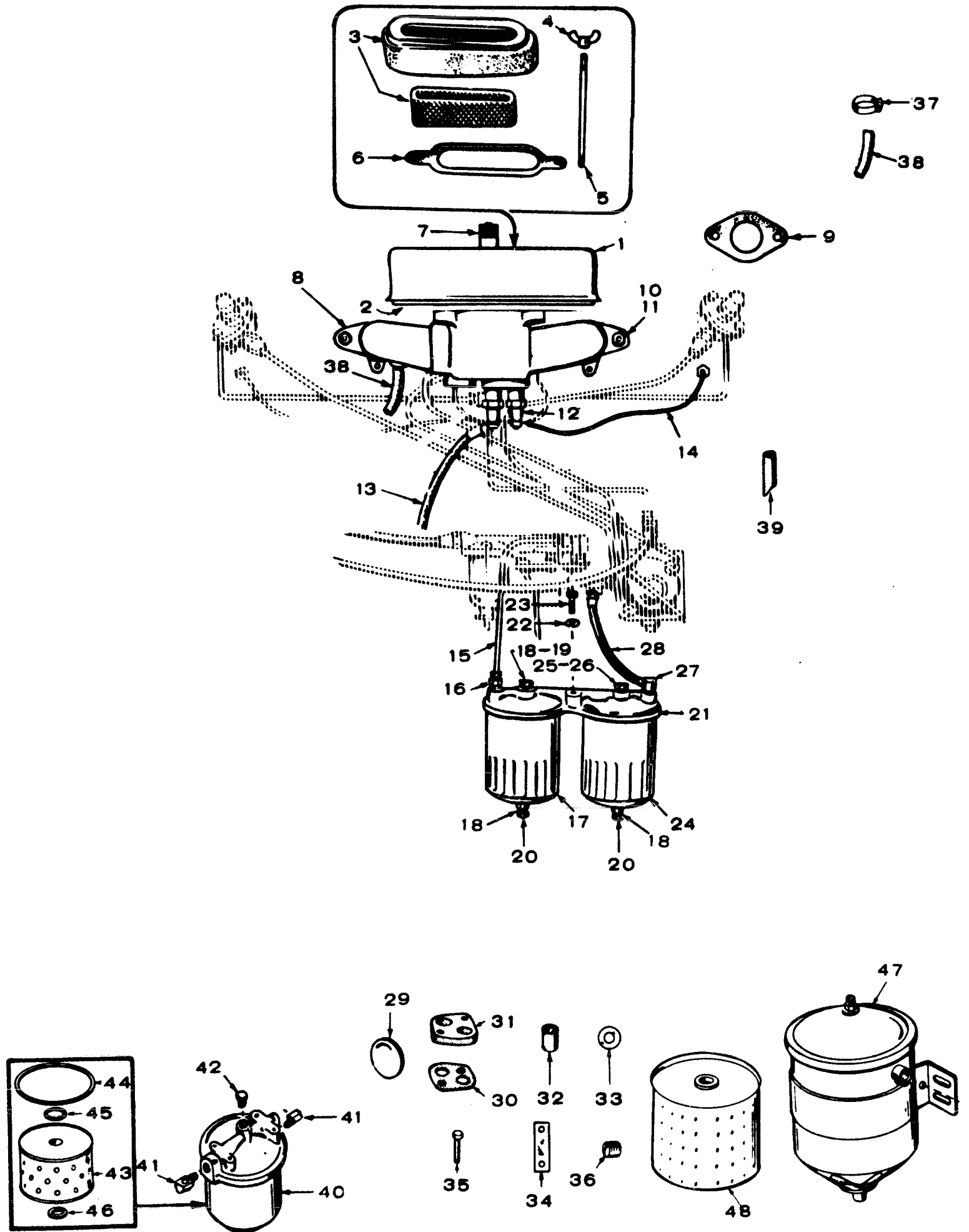
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	191-0324	1	Starter
1	191-0712	1	Armature
2	191-0432	1	Clutch
3	191-1023	1	Head Assembly, Commutator End
4	191-1024	1	Coil Package, Field
5	191-1025	1	Plate Assembly, Brush
6	191-1020	1	Spring Set, Brush (Set of 4)
7	191-1263	1	Connector Package
8	191-0497	1	Bearing (Bronze), Drive End
9	191-1027	1	Spring, Plunger
10	191-1028	1	Core Assembly, Moving
11	191-0433	1	Switch, Solenoid
12	191-1029	1	Yoke Parts Package
13	191-1030	1	Stop and Lock Ring Package, Pinion
14	191-1031	1	Thrust Washer Package, Armature (Use as Required)
15	191-0434	1	Brush Set, Service
16	191-1032	1	Yoke
17	191-0468	1	Cover, Solenoid
18	191-1134	1	Boot, Rubber - Part of Moving Core Assembly

# GOVERNOR



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	870-0131	2	Nut, Hex Locking (#10-32)
2	JOINT, BALL		
	150-0939	2	Begin Spec R
	150-0974	2	Specs A Through Q
3	LINKAGE ASSEMBLY		
	150-1132	1	Begin Spec R
	150-0831	1	Specs A Through Q
4	850-0040	2	Washer, Lock - Spring (1/4")
5	800-0005	2	Screw, Cap - Hex Head (1/4-20 x 3/4")
6	150-1084	1	Spring, Governor - Begin Spec R
7	150-1083	1	Stud, Governor Adjusting Begin Spec R
8	BRACKET ASSEMBLY		
	150-1110	1	Begin Spec R
	150-0814	1	Specs A Through Q
9	NUT, HEX-ADJUSTING		
	862-0003	1	Begin Spec R (3/8-16)
	104-0091	1	Specs A Through Q (3/8-24)
10	NUT, HEX-LOCKING (PALNUT)		
	870-0133	1	Begin Spec R (3/8-16)
	870-0130	1	Specs A Through Q (3/8-24)
11	870-0053	2	Nut, Hex (#10-32)
12	150-0846	1	Spring, Governor - Specs A Through Q
13	150-0822	1	Stud, Governor Adjusting Specs A Through Q

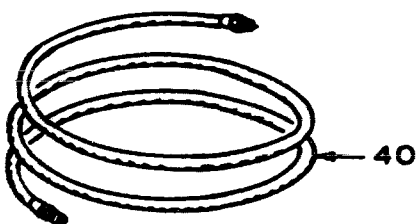
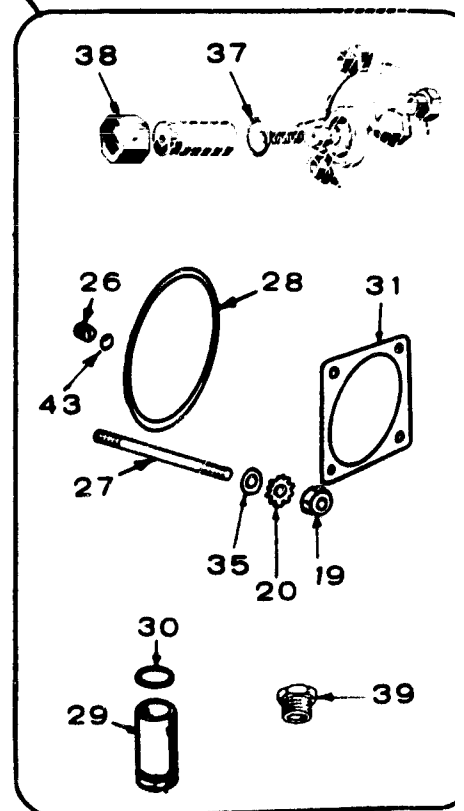
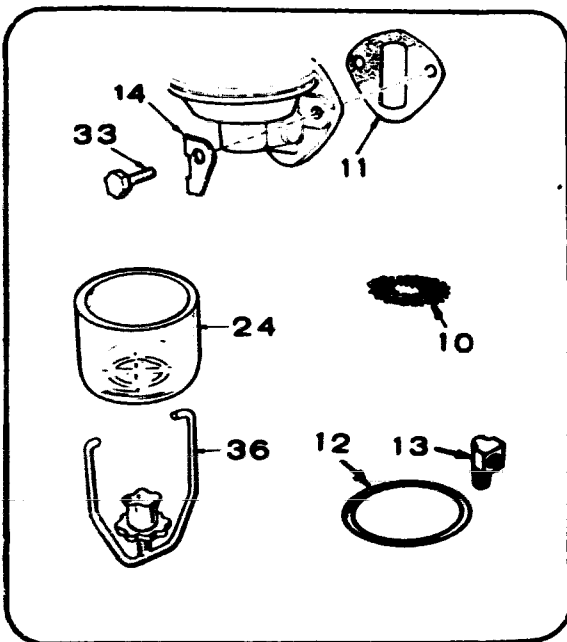
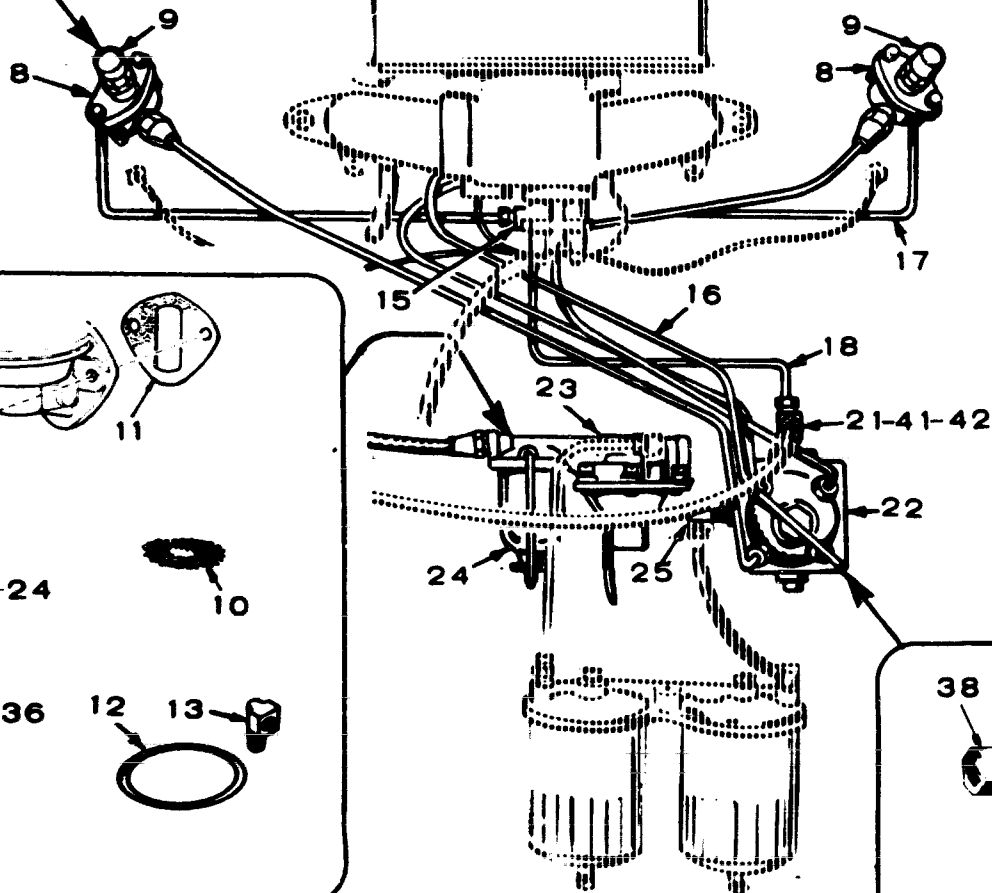
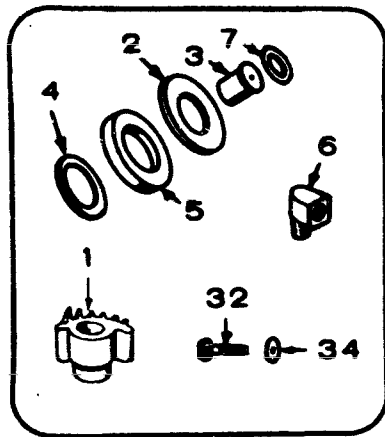
# AIR CLEANER AND FUEL FILTER



## AIR CLEANER AND FUEL FILTER

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	COVER, AIR CLEANER			26	801-0053	1	Screw, Cap - Hex Head (3/8-24 x 2")
	140-1194	1	Begin Spec T				Begin Spec S
	140-0594	1	Specs A Through S	27	502-0099	1	Elbow, Reducer - Secondary Fuel Filter Outlet
2	140-0595	1	Pan, Air Cleaner				Begin Spec S
3	140-0636	1	Element, Air Cleaner (Includes Retainer)	28	LINE, FUEL - SECONDARY FILTER TO INJECTION PUMP		
4	865-0020	2	Nut, Wing		501-0129	1	Begin Spec S
5	520-0621	2	Stud, Air Cleaner		501-0091	1	Specs A Through R
6	140-0584	1	Gasket, Air Cleaner	29	517-0104	1	Plug, Core Hole
7	140-0961	1	Indicator, Restriction				Intake Manifold - Begin Spec R
8	154-1378	1	Manifold, Intake	30	140-0706	1	Gasket, Manifold Heater
9	154-0733	2	Gasket, Intake Manifold				Insulator
10	STUD, MANIFOLD MOUNTING			31	140-0705	1	Plate, Manifold Heater Mtg.
	520-0011	2	1-7/16" Long	32	508-0103	2	Sleeve, Insulator - Manifold Heater
	520-0338	2	2-7/8" Long				Heater
11	870-0137	4	Nut, Hex - Locking (5/16-24)	33	508-0102	2	Washer, Insulator - Manifold Heater
12	154-0712	2	Heater, Manifold - 12 Volt (Includes Gasket)	34	332-0829	1	Strap, Jumper - Manifold Heater
13	336-1331	1	Lead, Air Heater to Solenoid in Control	35	114-0023	2	Screw, Cap - Hex Head (1/4-20 x 1-1/4")
14	LEAD, GLOW PLUG TO AIR HEATER		Blade Type Terminal (Used on Late Models)				Manifold Heater Mounting
	336-1504	2	Number 1 and 4 Cylinders	36	505-0180	1	Plug, Intake Manifold (1/4" Countersunk)
	336-1505	2	Number 2 and 3 Cylinders	37	503-0171	1	Clamp, Breather Hose
			Round Type Terminal (Used on Early Models)				Specs A Through R
	336-1314	1	Number 1 Cylinder	38	503-0328	1	Hose, Breather
	336-1313	2	Number 2 and 3 Cylinder				Specs A Through R
15	LINE, FUEL PUMP TO SECONDARY FILTER			39	123-0732	1	Tube, Nylon - Breather Hose to Manifold
	149-1189	1	Begin Spec S				Specs A Through R
	149-0806	1	Specs A Through R	40	149-0408	1	Filter, Fuel - Secondary (Includes Cartridge) - Specs A Through R
16	502-0003	1	Connector, Primary Fuel Filter Inlet - Begin Spec S	41	502-0041	2	Elbow, Inverted Male - Specs A Through R
17	122-0325	1	Filter, Fuel - Primary - Begin Spec S (Includes 1-526-0068)	42	149-0769	1	Plug, Bleed - Secondary Filter - Specs A Through R
18	526-0068	3	Washer, Flat (29/64" ID x 3/4" OD x 1/16" Thk) - Begin Spec S	43	149-0428	1	Cartridge, Secondary Filter
19	801-0074	1	Screw, Cap - Hex Head (7/16-20 x 1-3/4") - Begin Spec S				Specs A Through R
20	502-0080	2	Plug, Drain - Fuel Filter - Begin Spec S	44	149-0456	1	Gasket, Secondary Filter Bowl to Cover - Specs A Through R
21	149-1185	1	Adapter, Fuel Filters - Begin Spec S	45	149-0455	1	Gasket, Secondary Filter Cartridge to Head - Specs A Through R
22	850-0045	3	Washer, Lock - Spring (5/16") - Begin Spec S	46	149-0493	1	Gasket, Secondary Filter Cartridge to Retainer
23	800-0026	3	Screw, Cap - Hex Head (5/16-18 x 3/4") - Begin Spec S				Specs A Through R
24	122-0326	1	Filter, Fuel - Secondary - Begin Spec S (Includes 1-526-0068)	47	149-1078	1	Filter, Fuel - Mounted Between Fuel Tank and Transfer Pump
25	526-0066	1	Washer, Flat (25/64" ID x 9/16" OD x 1/16" Thk) - Begin Spec S	48	149-0846	1	Cartridge (For 149-1078 Filter) - Specs A Through R

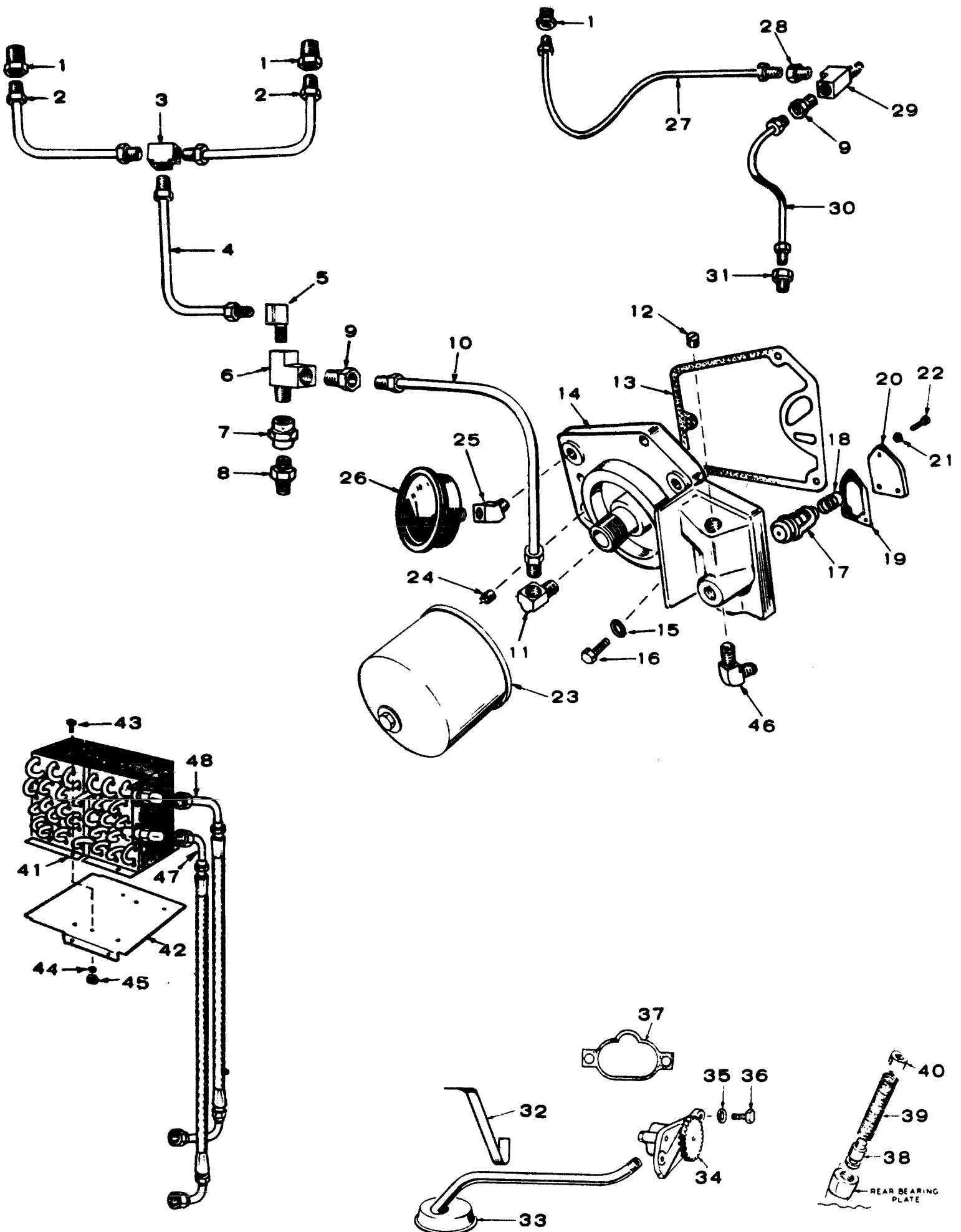
# FUEL PUMP AND INJECTION SYSTEM



## FUEL PUMP AND INJECTION SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	149-1046	1	Repair Kit, Fuel Pump (Includes Diaphragm and Gaskets) <b>Note:</b> Does not apply for AC pumps	22	PUMP, INJECTION - FUEL		
1	ADAPTER, INJECTION NOZZLE			147-0232	1		Begin Spec R (Includes Buttons 1,2,12,13)
	147-0132	2	Number 2 and 4 Cylinders	147-0231	1		Specs A Through Q (Includes Buttons 1,2,12,13 and Injection Lines)
	147-0133	2	Number 1 and 3 Cylinders	23	149-1704	1	Pump, Transfer - Fuel
2	147-0043	4	Gasket, Nozzle Heat Shield (Asbestos)	24	BOWL, FUEL PUMP - GLASS (Measure for Correct Length)		
3	147-0268	4	Nozzle Only (Component of Nozzle and Holder Assembly)	149-0116	1		2-3/8" Long
4	110-0419	4	Gasket, Nozzle Heat Shield to Head (Copper)	149-1168	1		1-5/8" Long
5	147-0044	4	Shield, Nozzle Heat (Steel)	25	ELBOW, INJECTION PUMP INLET		
6	ELBOW, INVERTED - FUEL RETURN LINE			502-0039	1		Begin Spec S
	502-0065	2	45° - Number 1 and 4 Cylinders	502-0054	1		Specs A Through R
	502-0002	2	90° - Numbers 2 and 3 Cylinders	26	BUTTON, INJECTION PUMP PLUNGER		
7	147-0243	4	Gasket, Nozzle	147-0147	1		.119 - Marked 1 or A
8	147-0141	4	Flange, Injection Nozzle Hold-down	147-0148	1		.116 - Marked 2 or B
9	147-0136	4	Nozzle and Holder Assembly	147-0149	1		.113 - Marked 3 or C
10	149-0463	1	Screen, Fuel Pump Filter	147-0150	1		.110 - Marked 4 or D
11	149-0792	1	Gasket, Fuel Transfer Pump Mounting	147-0151	1		.107 - Marked 5 or E
12	149-0517	1	Gasket, Fuel Pump Bowl	147-0161	1		.104 - Std. Marked 11 or No Mark
13	502-0002	2	Elbow, Fuel Pump Inlet and Outlet	147-0152	1		.101 - Marked 6 or F
14	149-1307	2	Washer, Flange - Fuel Pump Mounting	147-0153	1		.098 - Marked 7 or H
15	502-0245	1	Adapter, Return Lines	147-0154	1		.095 - Marked 8 or J
16	LINE, INJECTION PUMP TO NOZZLE			147-0155	1		.092 - Marked 9 or K
			Begin Spec R	147-0156	1		.089 - Marked 10 or L
	149-1150	1	Number 1 Cylinder	147-0190	1		.122 - Marked 12 or M
	149-1151	1	Number 2 Cylinder	147-0189	1		.125 - Marked 13 or N
	149-1152	1	Number 3 Cylinder	147-0188	1		.128 - Marked 14 or P
	149-1153	1	Number 4 Cylinder	147-0187	1		.131 - Marked 15 or R
			Specs A Through Q	147-0186	1		.134 - Marked 16 or S
	149-0963	1	Number 1 Cylinder	27	520-0129	4	Stud, Injection Pump Mounting
	149-0964	1	Number 2 Cylinder	28	509-0094	1	Seal, O-Ring - Injection Pump to Crankcase
	149-0965	1	Number 3 Cylinder	29	147-0182	1	Tappet, Injection Pump
	149-0966	1	Number 4 Cylinder	30	147-0196	1	Gasket, O-Ring - Injection Pump Tappet
17	LINE, NOZZLE FUEL RETURN			31	147-0145	1	Shim Kit, Injection Pump Mtg
			Begin Spec P	32	800-0508	8	Screw, Cap - Hex Head (5/16-18 x 2-3/4")
	149-1060	1	Number 1 Cylinder	33	800-0027	2	Screw, Cap - Hex Head (5/16-18 x 7/8")
	149-1059	2	Number 2 and 3 Cylinders	34	526-0122	8	Washer, Flat (11/32 ID x 23/32 OD x 10 GA)
	149-1061	1	Number 4 Cylinder	35	526-0022	4	Washer, Flat (21/64 ID x 9/16 OD x 1/16 Thk)
			Specs A Through N	36	BAIL, FUEL PUMP BOWL (Measure for Correct Length)		
	149-0909	1	Number 1 Cylinder	149-1006	1		3-5/8" Long
	149-0908	2	Number 2 and 3 Cylinders	149-1169	1		2-7/8" Long
	149-0910	1	Number 4 Cylinder	37	147-0254	1	Gasket, Delivery Valve Cap
18	LINE INJECTION PUMP TO FUEL RETURN LINES TEE			38	147-0253	1	Cap, Delivery Valve
	149-1062	1	Begin Spec P	39	502-0176	1	Adapter, Pipe - Bleeder Valve to Pump (Early Models)
	149-0949	1	Specs A Through N	40	501-0007	2	Line, Fuel (28")
19	862-0015	4	Nut, Hex (5/16-18)	41	502-0048	1	Tee, Return Line (Early Models)
20	850-0045	4	Washer, Lock - Spring (5/16")	42	502-0029	1	Bushing, Pipe - Return Line Tee to Pump (Early Models)
21	147-0183	1	Valve, Bleeder - Injection Pump	43	147-0259	1	Ring, Retaining - Timing Button

OIL SYSTEM

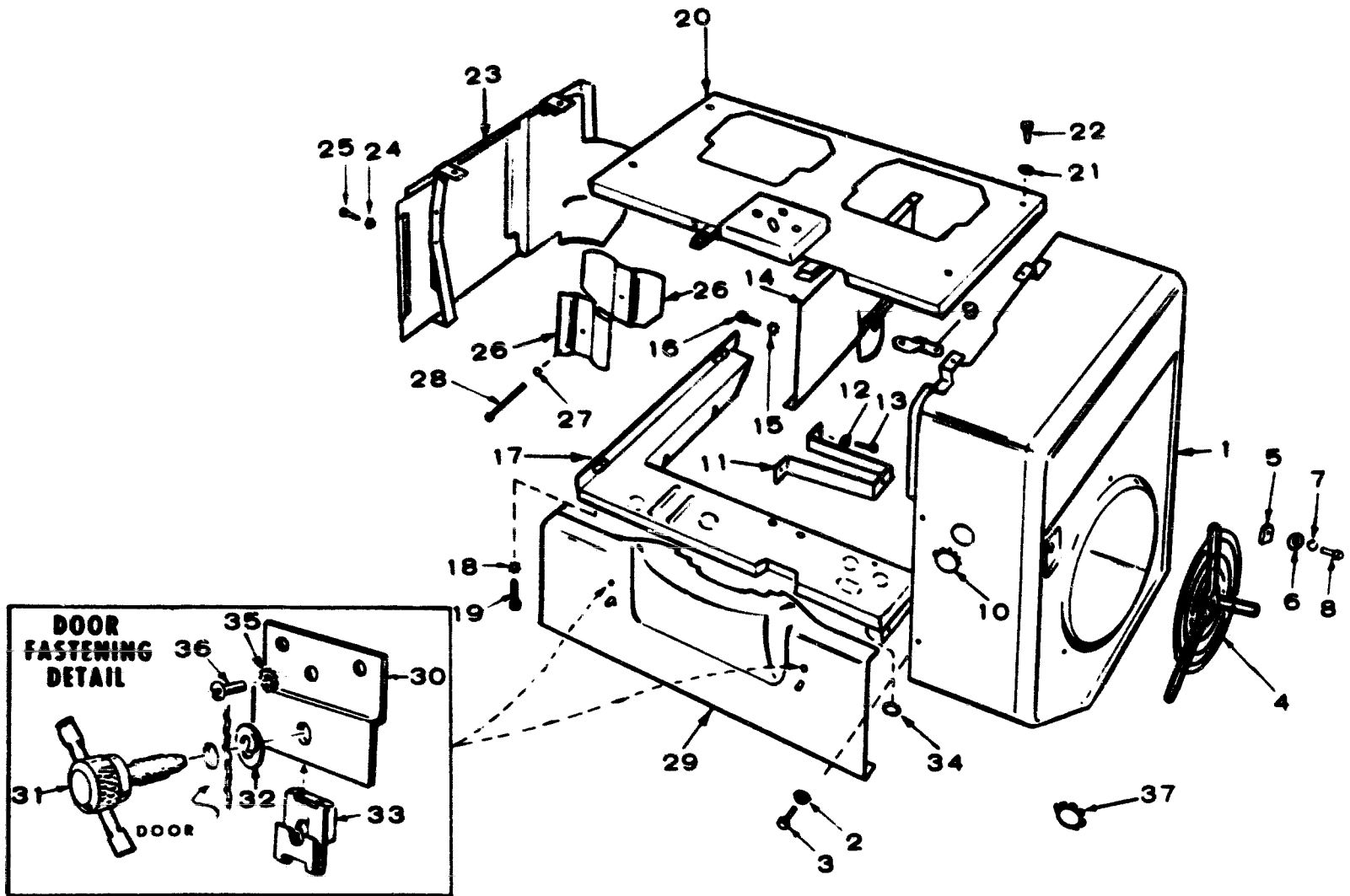


# OIL SYSTEM

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	CONNECTOR, OIL LINE TO CYLINDER HEAD			25	502-0053	1	Elbow, Street (45°)
	502-0281	2	Begin Spec T (Restricted)	26	193-0006	1	Gauge, Oil Pressure
	502-0281	1	Specs P Through S (Restricted)	27	LINE, CYLINDER HEAD TO CYLINDER TEE		
	502-0097	1	Specs A Through N		120-0635	1	Specs P Through S
2	120-0695	2	Line, Oil - Cylinder Head to Tee - Begin Spec T		120-0575	1	Specs A Through N
3	502-0373	1	Tee, Oil Lines - Cylinder Heads - Begin Spec T	28	CONNECTOR, OIL LINE TO TEE		
4	120-0696	1	Line, Oil - Begin Spec T		502-0097	1	Specs P Through S
5	502-0037	1	Elbow, Oil Line - Begin Spec P		502-0030	1	Specs A Through N
6	502-0242	1	Tee, Oil Lines (Cylinder Block)	29	TEE, RESTRICTED - FRONT CYLINDER HEAD		
7	502-0051	1	Coupling, Pipe - Oil Lines (Cylinder Block) - Begin Spec P		502-0282	1	Specs P Through S
8	502-0082	1	Nipple, Pipe - Hex - Begin Spec P		502-0242	1	Specs A Through N
9	CONNECTOR, INVERTED MALE (Restricted)			30	LINE, INJECTION PUMP TO CYLINDER HEAD		
	502-0274	1	Begin Spec P		120-0632	1	Specs P Through S
	502-0030	1	Specs A Through N		120-0583	1	Specs A Through N
10	LINE, ADAPTER TO CYLINDER BLOCK TEE			31	CONNECTOR, OIL LINE TO TEE		
	120-0614	1	Begin Spec P		502-0097	1	Specs P Through S
	120-0584	1	Specs A Through N		502-0030	1	Specs A Through N
11	ELBOW, INVERTED MALE - ADAPTER			32	120-0602	1	Bracket, Intake Cup
	502-0037	1	Begin Spec P	33	120-0601	1	Cup Assembly, Oil Intake
	502-0019	1	Specs A Through N	34	120-0547	1	Pump Assembly, Oil (Components Not Sold Separately)
12	505-0274	1	Plug, Pipe - Slotted	35	850-0045	2	Washer, Lock - Spring (5/16")
13	122-0246	1	Gasket, Filter Adapter	36	800-0030	2	Screw, Cap - Hex Head (5/16-18 x 1-1/4")
14	122-0245	1	Adapter, Oil Filter	37	120-0580	1	Gasket Kit, Oil Pump
15	850-0045	3	Washer, Lock - Spring (5/16")	38	120-0539	1	Valve, Oil By-Pass
16	800-0028	3	Screw, Cap - Hex Head (5/16-18 x 1")	39	120-0555	1	Spring, By-Pass Valve
17	309-0130	1	Thermostat, Oil Temperature	40	505-0274	1	Plug, Pipe - Oil By-Pass Valve
18	122-0242	1	Spring, Thermostat	41	102-0843	1	Cooler, Oil (NOTE: Specs A Through Q also order 501-0109 and 501-0110 Lines)
19	122-0243	1	Gasket, Thermostat Cover	42	102-0518	1	Bracket, Oil Cooler Mounting
20	122-0244	1	Cover, Thermostat	43	800-0003	4	Screw, Cap - Hex Head (1/4-20 x 1/2")
21	850-0040	3	Washer, Lock - Spring (1/4")	44	853-0013	4	Washer, Lock - Spring (1/4")
22	800-0005	3	Screw, Cap - Hex Head (1/4-20 x 3/4")	45	862-0001	4	Nut, Hex (1/4-20)
23	122-0185	1	Filter, Oil	46	502-0277	2	Elbow, Oil Cooler Line to Adapter
24	505-0057	1	Plug, Pipe - Square Head (1/8")	47	501-0109	1	Line, Flexible (Short Elbow)
				48	501-0110	1	Line, Flexible (Long Elbow)



# AIR HOUSING



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	134-1447	1	Housing, Blower
2	854-0014	6	Washer, Lock - IT (1/4")
3	815-0235	6	Screw, Cap - Hex Head (1/4-20 x 5/8")
4	134-1178	1	Grille and Plate
5	134-1092	3	Retainer, Grille
6	526-0115	3	Washer, Flat (.200" ID x 3/8" OD x 1/32" Thk)
7	850-0040	3	Washer, Lock - Spring (1/4")
8	800-0007	3	Screw, Cap - Hex Head (1/4-20 x 1")
9	BRACKET, BLOWER HOUSING AND CYLINDER AIR HOUSING COVER		
	134-1703	1	Front
	134-1704	1	Back
10	517-0035	1	Plug, Dot Button - Begin Spec R
11	134-1088	1	Support, Blower Housing and Grille
12	850-0045	2	Washer, Lock - Spring (5/16")
13	800-0024	2	Screw, Cap - Hex Head (5/16-18 x 1/2")
14	134-1449	1	Housing, Cylinder Air - Front
15	850-0040	4	Washer, Lock - Spring (1/4")
16	815-0235	4	Screw, Cap - Hex Head (1/4-20 x 5/8")
17	PAN, CYLINDER AIR HOUSING (BOTTOM)		
	134-1418	1	Begin Spec T
	134-1418	1	Specs A Through R
18	854-0013	2	Washer, Lock - IT (#12)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
19	815-0235	2	Screw, Cap - Hex Head (1/4-20 x 5/8")
20	134-1200	1	Cover, Cylinder Air Housing
21	526-0021	4	Washer, Flat (17/64" ID x 3/4" OD x 1/16" Thk)
22	800-0004	4	Screw, Cap - Hex Head (1/4-20 x 5/8")
23	134-1051	1	Housing, Cylinder Air - Rear
24	854-0010	2	Washer, Lock - IT (#10)
25	813-0097	2	Screw, Machine - Round Head (#10-32 x 5/16")
26	BAFFLE CENTER CYLINDER		
	134-1097	1	Injection Pump Side
	134-1098	1	Opposite Side of Injection Pump
27	854-0014	1	Washer, Lock - IT (1/4")
28	812-0165	1	Screw, Machine - Round Head (1/4-20 x 4-1/2")
29	134-1202	1	Panel, Door - Air Housing
30	134-1089	2	Bracket, Air Housing Door
31	134-1373	2	Screw, Door Panel (Special)
32	134-1180	4	Washer, Retainer - Door Panel (Also 8 used on top cover on some early models)
33	870-0194	6	Nut, Clinch (1/4-20) Door Panel and Cover
34	508-0005	2	Grommet, Rubber (9/16")
35	853-0008	4	Washer, Lock - ET (#8)
36	813-0098	4	Screw, Machine - Round Head (#10-32 x 3/8")
37	517-0108	2	Plug, Dot Button (1-1/8" Hole)

**NOTE:** Blower Housing changes with various combinations of fac

## SERVICE KITS AND MISCELLANEOUS

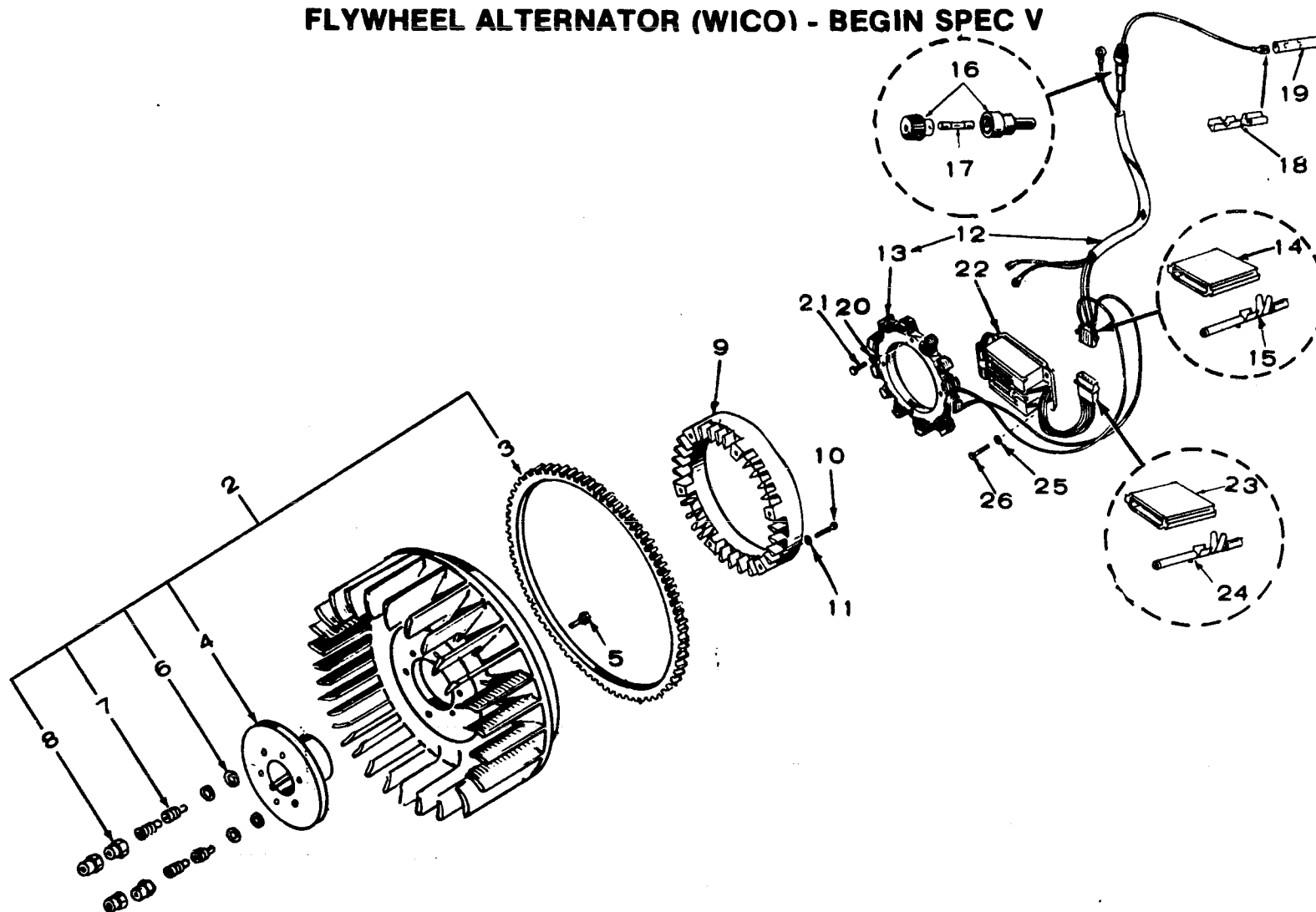
PART NO.	QTY. USED	PART DESCRIPTION
98-1100	1	Decal Kit
168-0087	1	Gasket Kit
OVERHAUL KIT		
522-0245	1	Begin Spec S
522-0202	1	Specs A Through R
PAINT TOUCH-UP (Pressurized Can)		
525-0305	As Req	Non-Metallic Green (13 oz.)
525-0137	As Req	Metallic Green (16 oz.)
525-0454	As Req	Greige (13 oz.)

**NOTE:** For other kits, refer to the group for the part in question.

## **OPTIONAL EQUIPMENT SECTION**

This section contains parts listing of factory installed options.  
**NOTE:** options may not be applicable to all models; for field installations, additional parts are usually required.

# **OPTION 1** **FLYWHEEL ALTERNATOR (WICO) - BEGIN SPEC V**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
2	134-1556	1	Flywheel Assembly (Includes Parts Marked *)
3	104-0423	1	*Gear, Ring
4	134-1401	1	*Hub, Flywheel
5	801-0054	4	*Screw, Cap - Hex Head (3/8-24 x 2")
6	526-0187	4	*Washer, Flat (19/32" ID x 1-1/8" OD x 16 Ga. Thk)
7	104-0543	4	*Spacer and Bellville Washer Assembly
8	115-0150	4	*Nut, Hex - Locking (3/8-24)
9	191-0400	1	Rotor
10	812-0133	6	Screw, Machine - Round Head (#12-24 x 1-1/2")
11	850-0035	6	Washer, Lock - Spring (#12)
12	191-0918	1	Stator Assembly (Includes Parts Marked Δ)
13	191-0724	1	ΔStator Only (Includes Leads to Connector)

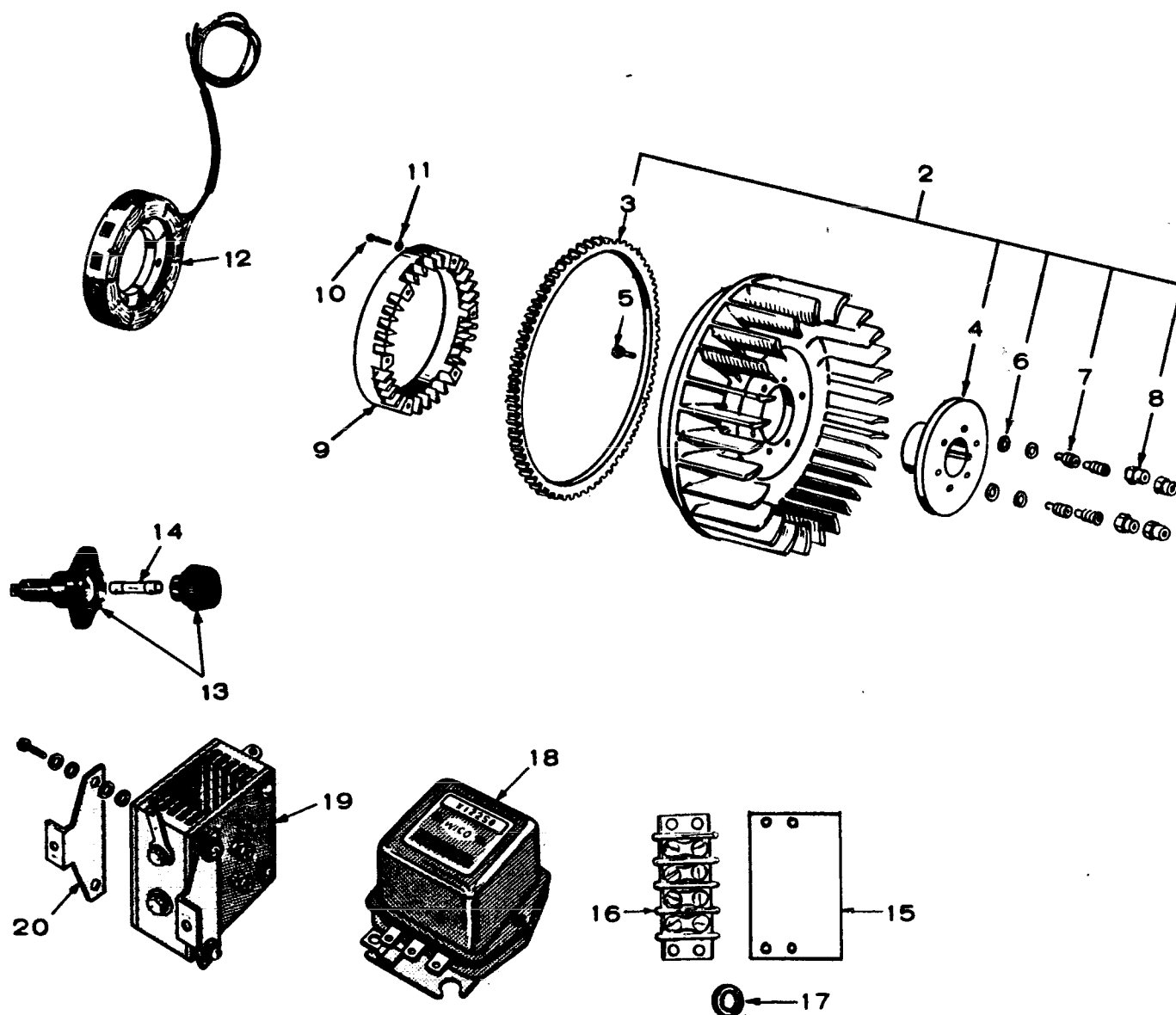
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
14	323-0759	1	ΔConnector, Socket Housing
15	323-0488	4	ΔSocket, Connector (Female)
16	321-0165	1	ΔHolder, Fuse (Includes 30 Amp Fuse)
17	321-0162	1	ΔFuse (30 Ampere)
18	332-0529	2	ΔTerminal, Crimp
19	332-0556	2	ΔConnector, Faston
20	850-0030	3	Washer, Lock - Spring (#10)
21	813-0107	3	Screw, Machine - Round Head (#10-32 x 1-1/4")
22	305-0478	1	Regulator, Voltage (Includes parts marked †)
23	323-0763	1	†Connector, Socket Housing
24	323-0496	4	†Pin, Connector (Male)
25	850-0040	3	Washer, Lock - Spring (1/4")
26	800-0006	3	Screw, Cap - Hex Head (1/4-20 x 7/8")

\* - Parts included in 134-1556 Flywheel Assembly.

Δ - Parts included in 191-0918 Stator Assembly.

† - Parts included in 305-0478 Regulator.

# **OPTION 2** **FLYWHEEL ALTERNATOR (WICO) - SPECS A THROUGH U**

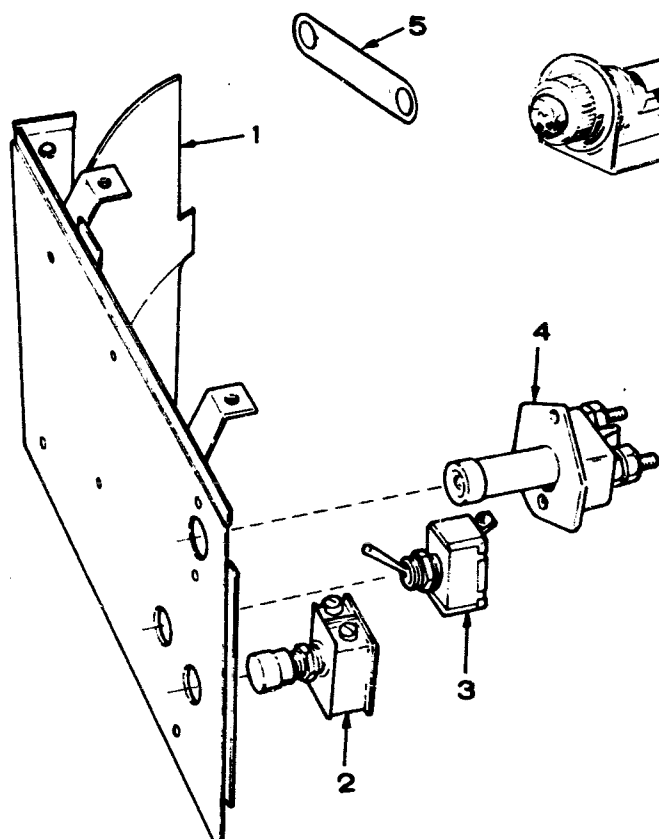


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
2	134-1556	1	Flywheel Assembly (Includes Parts Marked *)
3	104-0423	1	*Gear, Ring
4	134-1401	1	*Hub, Flywheel
5	801-0054	4	*Screw, Cap - Hex Head (3/8-24 x 2")
6	526-0187	4	*Washer, Flat (19/32" ID x 1-1/8" OD x 16 Ga. Thk)
7	104-0543	4	*Spacer and Bellville Washer Assembly
8	115-0150	4	*Nut, Hex - Locking (3/8-24)
9	191-0400	1	Rotor
10	812-0133	6	Screw, Machine - Round Head (#12-24 x 1-1/2")
11	850-0035	6	Washer, Lock - Spring (#12)

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
12	191-0509	1	Stator
13	321-0103	1	Holder, Fuse (Includes 20 Amp Fuse)
14	321-0128	1	Fuse (20 Amp)
15	332-0872	1	Strip, Marker
16	332-0537	1	Block, Terminal (4 Place)
17	508-0071	1	Grommet, Blower Housing
18	305-0261	1	Regulator, Voltage (12 Volt, 2 Step)
19	305-0267	1	Rectifier Assembly (Includes Mounting Brackets)
20	305-0262	2	Bracket, Rectifier Mounting

\* - Parts included in 134-1556 Flywheel Assembly.  
**NOTE:** Blower Housing changes with factory options. Refer to factory for Blower Housing giving Complete Model, Spec and Serial Number.

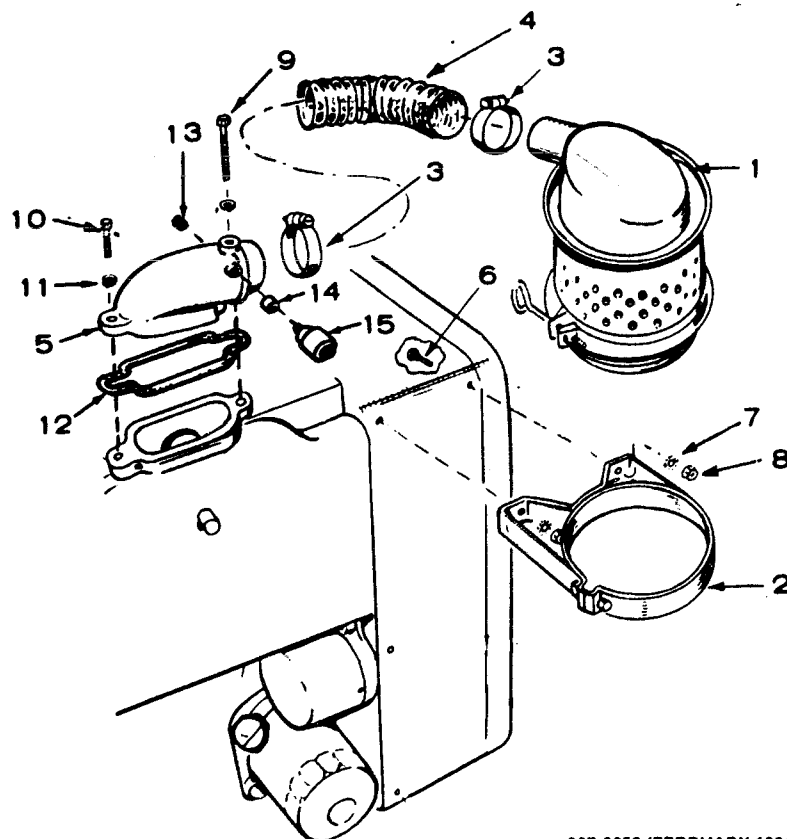
### OPTION 3 CONTROL (ENGINE)



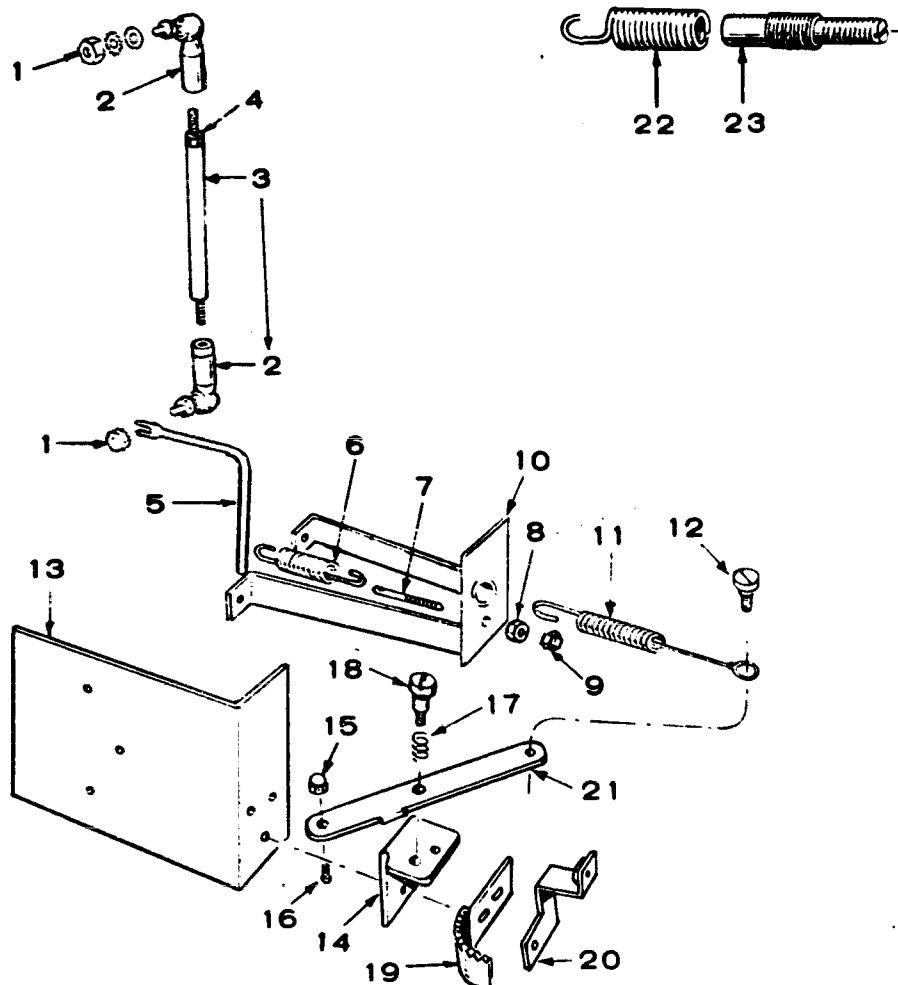
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	HOUSING, CYLINDER AIR - REAR (For Engines with Start Switch, Glow Plug Switch and Fuel Solenoid Switch. For Engines with Additional Controls refer to factory)		
	134-2256	1	Begin Spec V
	134-1508	1	Specs A Through U
2	308-0198	1	Switch, Start
3	308-0007	1	Switch, Fuel Solenoid
4	308-0028	1	Switch, Glow Plug
5	332-0592	1	Jumper, Terminal (Start Switch on Engines with Oil Pressure Switch)
6	322-0069	1	Light, Pilot - Red (Engines with Charging Alternator)
7	322-0017	1	Lamp, Pilot Light (Engines with Charging Alternator)

### OPTION 4 OIL BATH AIR CLEANER

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	140-0677	1	Conversion Kit, Oil Bath Air Cleaner (Includes all parts in this group)
1	140-0500	1	Cleaner, Air - Oil Bath
2	140-0519	1	Band, Air Cleaner
3	503-0365	2	Clamp, Hose
4	503-0444	1	Hose, Air Cleaner to Adapter
5	140-1212	1	Adapter, Air Cleaner
6	800-0003	2	Screw, Cap - Hex Head (1/4-20 x 1/2")
7	850-0040	2	Washer, Lock - Spring (1/4")
8	862-0001	2	Nut, Hex (1/4-20)
9	800-0015	1	Screw, Cap - Hex Head (1/4-20 x 3")
10	800-0007	1	Screw, Cap - Hex Head (1/4-20 x 1")
11	850-0040	2	Washer, Lock - Spring (1/4")
12	140-0584	1	Gasket, Adapter Mounting
13	505-0008	2	Plug, Slotted - Intake Manifold
14	140-1260	1	Fitting, Safety Filter
15	140-0961	1	Indicator Assembly, Service

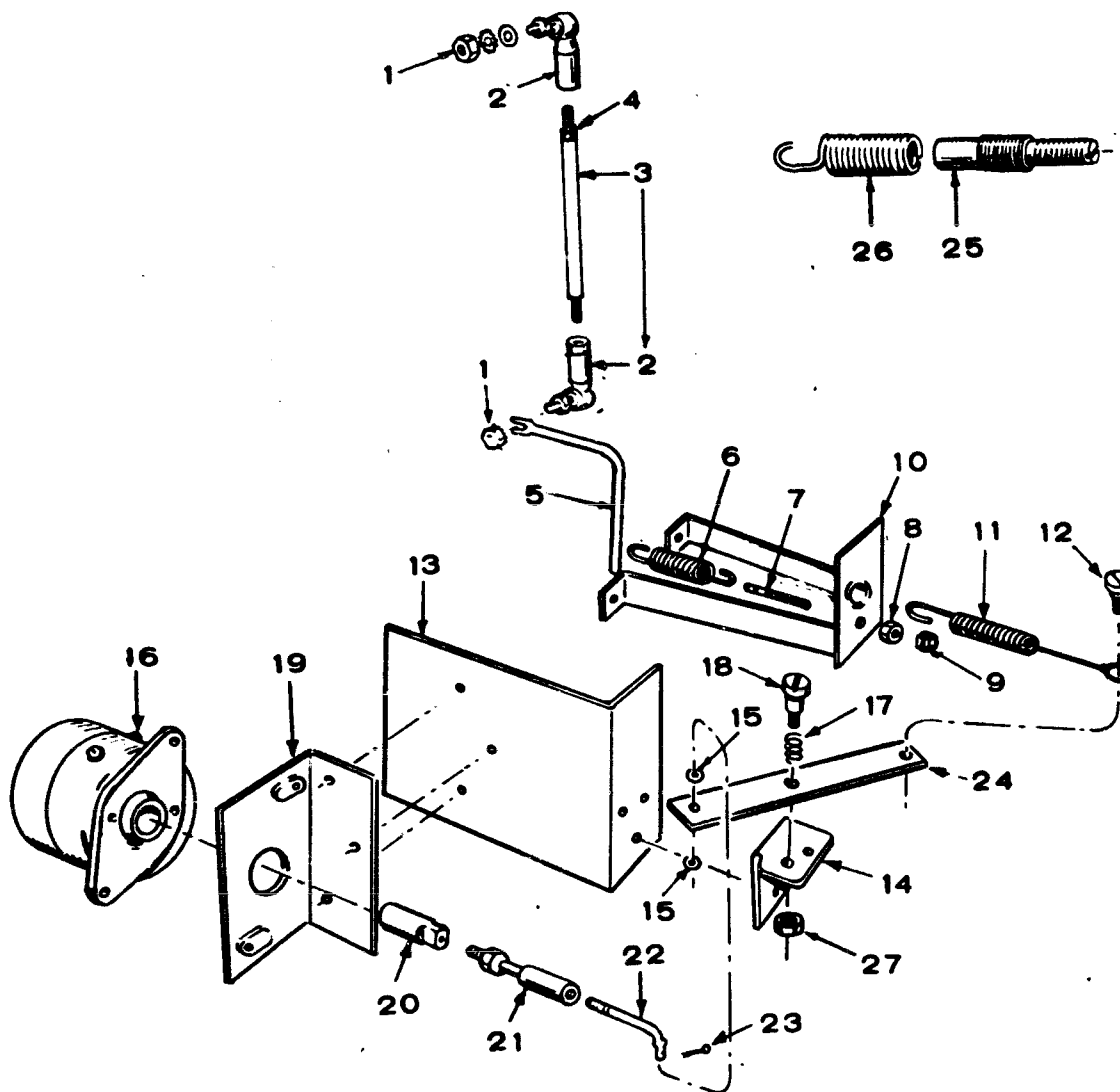


# **OPTION 5.** **GOVERNOR CONTROL (VARIABLE SPEED)**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	870-0131	2	Nut, Hex - Locking (#10-32)	11	SPRING, GOVERNOR CONTROL		
2	JOINT, BALL			150-0922	1		Speed Range 1200 to 1800 RPM (1-15/16" Coil)
	150-0939	2	Begin Spec R	150-0921	1		Speed Range 1200 to 2500 RPM (1-13/32" Coil)
	150-0974	2	Specs A Through Q	12	150-0918	1	Screw (Special)
3	LINKAGE ASSEMBLY			13	150-0917	1	Bracket, Governor Control Mounting
	150-1132	1	Begin Spec R	14	150-0916	1	Bracket, Lever Arm
	150-0831	1	Specs A Through Q	15	153-0014	1	Nut, Choke Wire Stop
4	871-0010	2	Nut, Hex (#10-32)	16	810-0074	1	Screw, Machine - Round Head Brass (#8-32 x 3/16")
5	150-1099	1	Arm Assembly, Governor - Begin Spec R	17	150-0907	1	Spring, Speed Control Lever Tension
6	150-1084	1	Spring, Governor - Begin Spec R	18	150-0915	1	Screw, Special
7	150-1083	1	Stud, Governor Adjusting Begin Spec R	19	150-0914	1	Ratchet Speed Control
8	NUT, HEX - GOVERNOR ADJUSTING STUD			20	150-0978	1	Bracket, Governor Stop
	862-0003	1	Begin Spec R (3/8-16)	21	150-0908	1	Lever, Speed Control
	104-0091	1	Specs A Through Q (3/8-24)	22	150-0846	1	Spring, Governor Specs A Through Q
9	NUT, SELF LOCKING (PALNUT)			23	150-0822	1	Stud, Governor Adjusting Specs A Through Q
	870-0133	1	Begin Spec R (3/8-16)				
	870-0130	1	Specs A Through Q (3/8-24)				
10	BRACKET ASSEMBLY, GOVERNOR						
	150-1111	1	Begin Spec R				
	150-0913	1	Specs A Through Q				

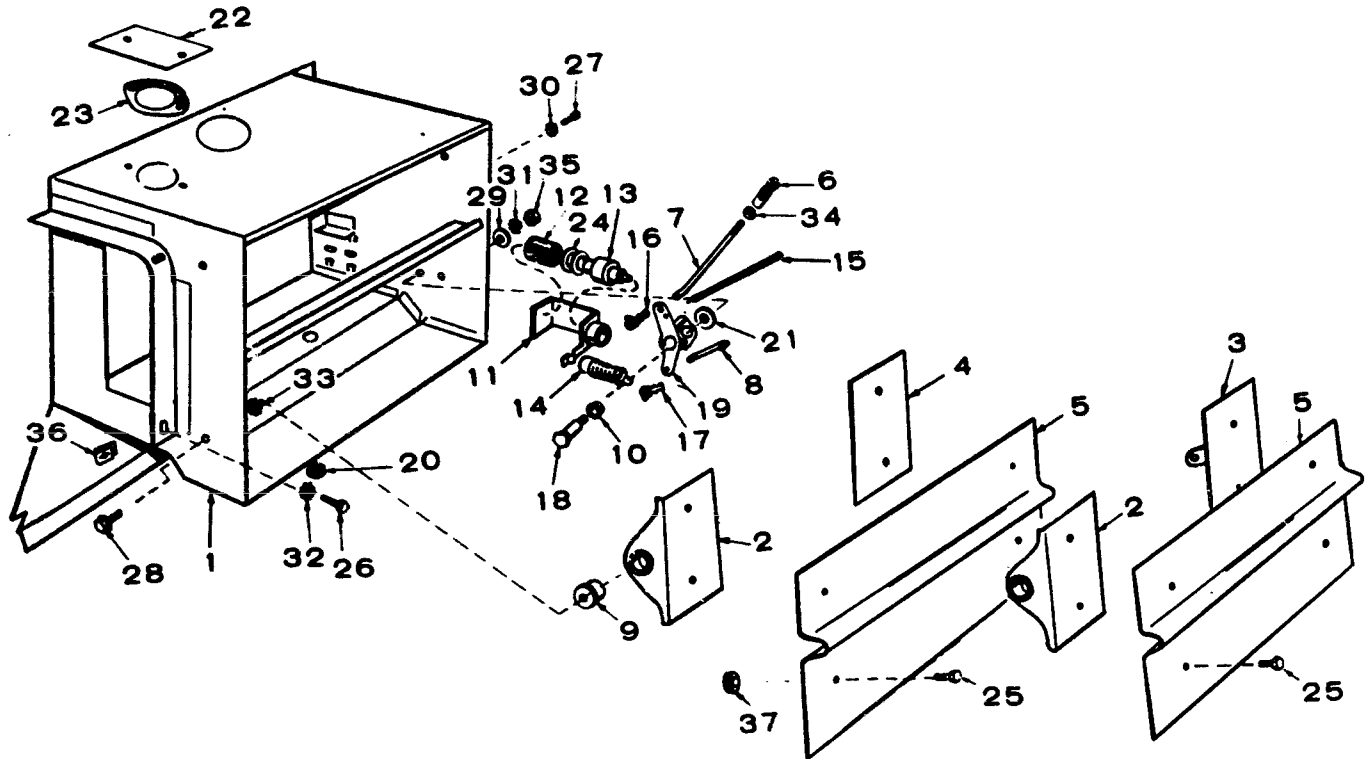
# **OPTION 6** **GOVERNOR CONTROL (TWO SPEED)**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	870-0131	2	Nut, Hex - Locking (#10-32)	11	150-0922	1	SPRING, GOVERNOR CONTROL Speed Range 1200 to 1800 RPM (1-15/16" Coil)
2	JOINT, BALL				150-0921	1	Speed Range 1200 to 2500 RPM (1-13/32" Coil)
	150-0939	2	Begin Spec R	12	150-0918	1	Screw (Special)
	150-0974	2	Specs A Through Q	13	150-0917	1	Bracket, Governor Control Mtg.
3	LINKAGE ASSEMBLY			14	150-0916	1	Bracket, Lever Arm
	150-1132	1	Begin Spec R	15	526-0116	2	Washer, Flat (.200" ID x 3/8" OD x 1/32" Thk)
	150-0831	1	Specs A Through Q	16	307-0628	1	Solenoid, Governor Control
4	871-0010	2	Nut, Hex (#10-32)	17	150-0907	1	Spring, Speed Control Lever Tension
5	150-1099	1	Arm Assembly, Governor Begin Spec R	18	150-0915	1	Screw (Special)
6	150-1084	1	Spring, Governor - Begin Spec R	19	150-0906	1	Bracket, Solenoid Mounting
7	150-1083	1	Stud, Governor Adjusting Begin Spec R	20	150-0905	1	Plunger, Solenoid
8	NUT, HEX - GOVERNOR ADJUSTING STUD			21	150-0925	1	Joint, Ball
	862-0003	1	Begin Spec R (3/8-16)	22	150-0923	1	Rod, Solenoid to Lever
	104-0091	1	Specs A Through Q (3/8-24)	23	516-0036	1	Key, Cotter - Solenoid Rod
9	NUT, SELF LOCKING (PALNUT)			24	150-0904	1	Lever, Control
	870-0133	1	Begin Spec R (3/8-16)	25	150-0822	1	Stud, Governor Adjusting - Specs A Through Q
	870-0130	1	Specs A Through Q (3/8-24)	26	150-0846	1	Spring, Governor - Specs A Through Q
10	BRACKET ASSEMBLY, GOVERNOR			27	115-0025	1	Nut (Special) - Lever Arm Bracket
	150-1111	1	Begin Spec R				
	150-0913	1	Specs A Through Q				

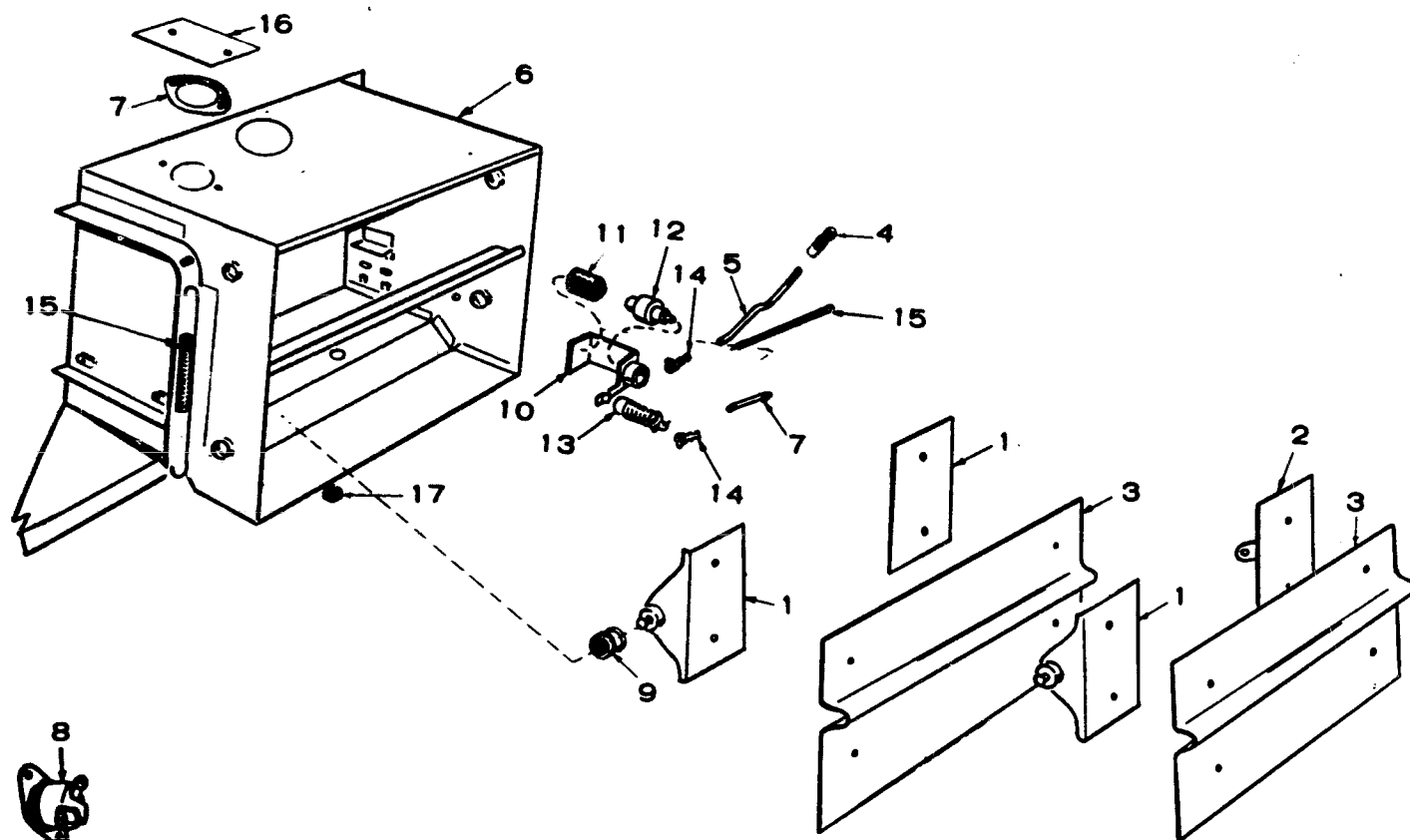


# **OPTION 7** **AIR SHUTTER DISCHARGE - BEGIN SPEC S**



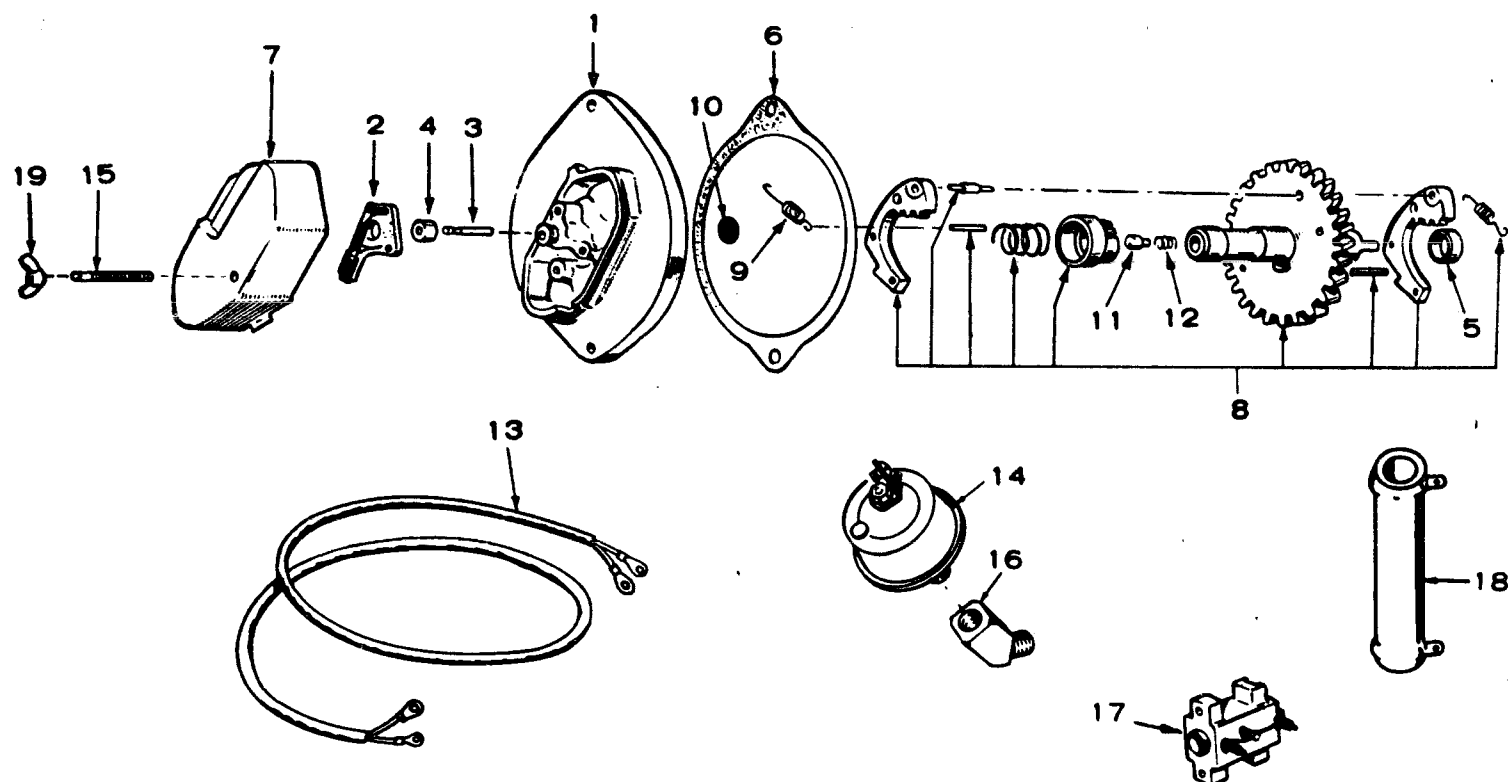
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION	REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	134-3754	1	Shutter Assembly, Complete (Internal Springs)	20	508-0002	1	Grommet, Rubber
1	134-1805	1	Duct only, Air Outlet	21	526-0213	1	Washer, Actuating Shaft
2	134-2411	2	Bracket and Pivot, Shutter	22	134-1375	1	Plate, Exhaust Outlet Cover
3	134-1802	1	Bracket and Pivot, Shutter and Rod	23	154-0738	1	Gasket, Exhaust Outlet
4	134-1801	1	Bracket and Pivot, Shutter and Spring	24	526-0175	2	Washer, Flat (41/64" ID x 29/32" OD x 1/16" Thk)
5	134-1614	2	Shutter, Air Outlet	25	815-0194	8	Screw, Cap - Hex Head (#10-32 x 3/8")
6	150-1358	1	Joint, Ball	26	815-0235	3	Screw, Cap - Hex Head (1/4-20 x 5/8")
7	134-1606	1	Rod, Shutter Control - Upper	27	813-0097	2	Screw, Machine - Round Head (#10-32 x 5/16")
8	134-1607	1	Rod, Shutter Control - Lower	28	821-0010	4	Screw, Cap - Hex Head Locking (1/4-20 x 1/2")
9	134-2900	4	Bearing, Shutter	29	526-0113	1	Washer, Flat (11/32" ID x 1" OD x 3/32" Thk)
10	134-1248	2	Bearing, Actuating Arm	30	853-0008	2	Washer, Lock - ET (#8)
11	134-1610	1	Bracket and Guide Vernatherm	31	853-0016	1	Washer, Lock - ET (5/16")
12	134-0656	1	Spring, Vernatherm Element	32	853-0013	3	Washer, Lock - ET (1/4")
13	309-0085	1	Element, Vernatherm	33	856-0006	4	Washer, Lock - EIT (1/4")
14	134-0658	1	Spring, Shutter Return - Lower	34	870-0131	1	Nut, Hex - Locking (#10-32)
15	134-1817	1	Spring, Shutter Return - Upper	35	860-0015	1	Nut, Ham - Hex (5/16-18)
16	518-0004	1	Clip, Rod End - Right Side	36	870-0178	3	Nut, Clinch (1/4-20)
17	518-0006	2	Clip, Rod End - Left Side	37	870-0131	8	Nut, Lock (#10-32) Shutter Mounting
18	134-1605	1	Shaft, Actuating Arm				
19	134-1604	1	Arm, Actuating				

# **OPTION 8** **AIR SHUTTER DISCHARGE - SPEC A THROUGH R**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	134-1234	1	Shutter Assembly, Complete (External Springs) - For replacement order 134-3754
1	134-1242	3	Bracket and Pivot
2	134-1238	1	Bracket, Shaft and Pin Assembly
3		2	Shutter
4	150-1358	1	Joint, Ball
5	134-1247	1	Rod, Shutter Control
6		1	Duct only - Not Sold Separately
7	154-0738	1	Gasket, Exhaust Outlet
8	309-0162	1	Switch, Hi-Temperature Specs A Through N (Mounts on Air Ducts)
9	134-1248	4	Bearing, Shutter
10	134-1244	1	Bracket and Guide, Vernatherm
11	134-0656	1	Spring, Vernatherm Element
12	309-0085	1	Element, Vernatherm
13	134-0658	1	Spring, Shutter Return
14	518-0004	1	Clip, Rod End
15	134-1437	2	Spring, Shutter Pivot
16	134-1375	1	Plate, Exhaust Outlet
17	508-0002	1	Grommet, Rubber

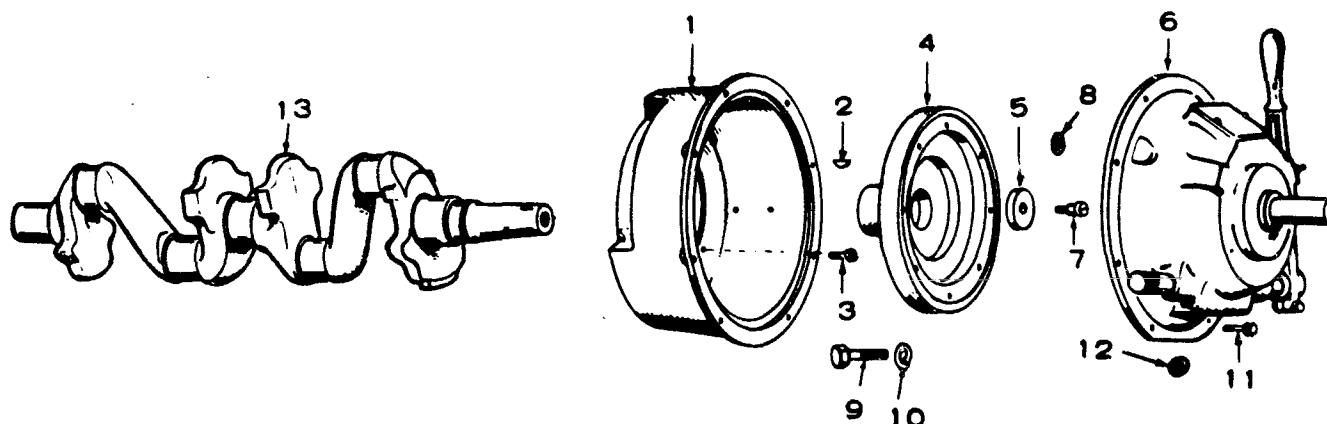
## OPTION 9 LOW OIL PRESSURE SWITCH



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	191-0496	1	Plate, Centrifugal Switch
2	309-0134	1	Switch, Centrifugal
3	309-0152	1	Plunger
4	160-0382	1	Diaphragm, Switch
5	160-0720	1	Spacer, Control
6	160-0721	1	Gasket, Switch Plate
7	191-0392	1	Cover, Switch Plate
8	191-0388	1	Control Assembly, Switch
9	160-0711	2	Spring, Weight (Included in Switch Control Assembly)
10	160-0806	1	Disc, Thrust Plunger
11	160-0774	1	Plunger
12	160-0773	1	Spring, Plunger
13	338-0258	1	Harness, Centrifugal Switch
14	309-0169	1	Switch, Low Oil Pressure (Note: Engines with factory mounted controls see optional engine control group)
15	520-0347	1	Stud, Steel (#10-32 x 1-5/8")
16	502-0053	1	Elbow, 45° - Low Oil Pressure Switch Mounting
17	320-0104	1	Relay, Emergency Start
18	304-0217	1	Resistor, Fixed (1-Ohm, 10 Watt)
19	865-0011	1	Nut, Wing (10-32)

**NOTE:** All parts listed are used when controls are not factory mounted. Engines with factory mounted controls require only the oil pressure switch and elbow (See also Engine Control group).

## OPTION 10 CLUTCH (ROCKFORD)

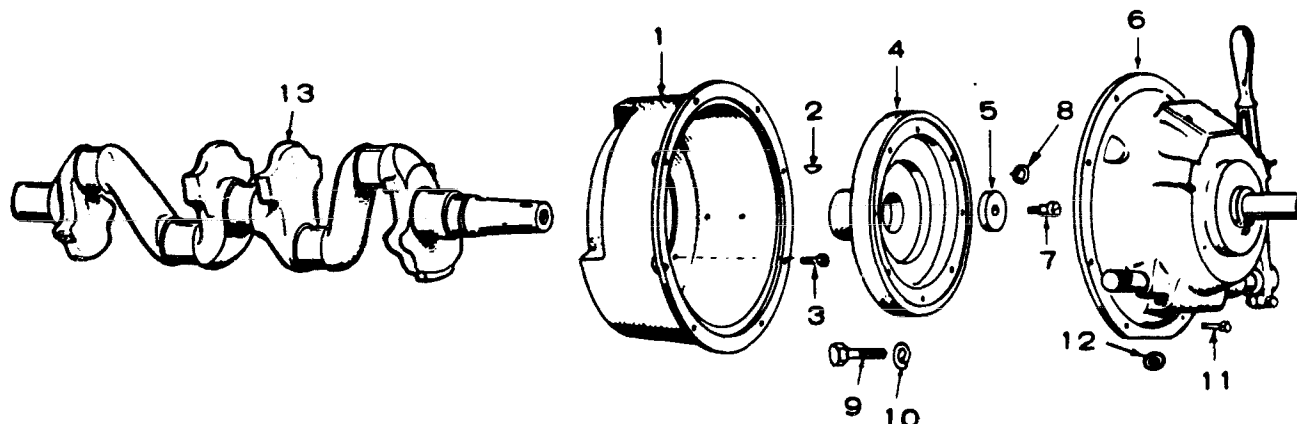


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	190-0251	1	Housing, Clutch
2	515-0006	1	Key, Clutch
3	805-0019	4	Bolt, Place (3/8-16 x 1-7/16")
4	190-0252	1	Flange, Adapter
5	190-0254	1	Washer, Flat - Special
6	190-0258	1	Clutch Assembly (Rockford #PTA-5883-X1)
7	800-0549	1	Screw, Cap - Hex Head (7/16-14 x 1-3/4")
8	850-0055	1	Washer, Lock - Spring (7/16")
9	800-0030	8	Screw, Cap - Hex Head (5/16-18 x 1-1/4")

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
10	850-0045	8	Washer, Lock - Spring (5/16")
11	800-0051	8	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
12	850-0050	8	Washer, Lock - Spring (3/8")
13	104-1294	1	Crankshaft

**NOTE:** For Components, Contact your nearest Rockford Clutch dealer. Borg Warner Corporation - Rockford Illinois 61100.

## OPTION 11 CLUTCH (TWIN DISC)

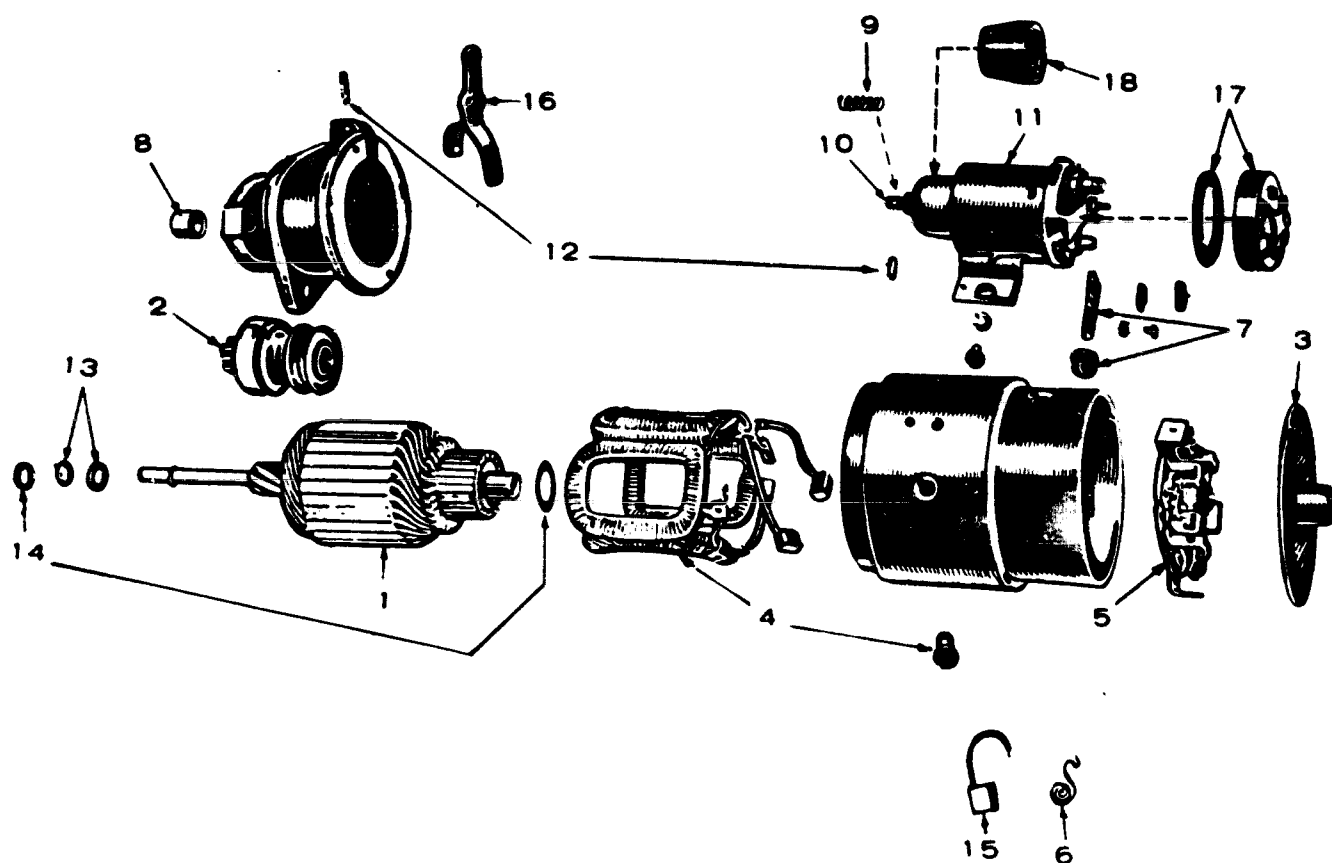


REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	190-0251	1	Housing, Clutch
2	515-0006	1	Key, Clutch
3	805-0019	4	Bolt, Place (3/8-16 x 1-7/16")
4	190-0253	1	Flange, Adapter
5	190-0254	1	Washer, Flat - Special
6	190-0325	1	Clutch Assembly (Twin Disc #C-107SP-5)
7	800-0549	1	Screw, Cap - Hex Head (7/16-14 x 1-3/4")
8	850-0055	1	Washer, Lock - Spring (7/16")
9	800-0030	8	Screw, Cap - Hex Head

REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
10	850-0045	8	Washer, Lock - Spring (5/16")
11	800-0051	8	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
12	850-0050	8	Washer, Lock - Spring (3/8")
13	104-1294	1	Crankshaft

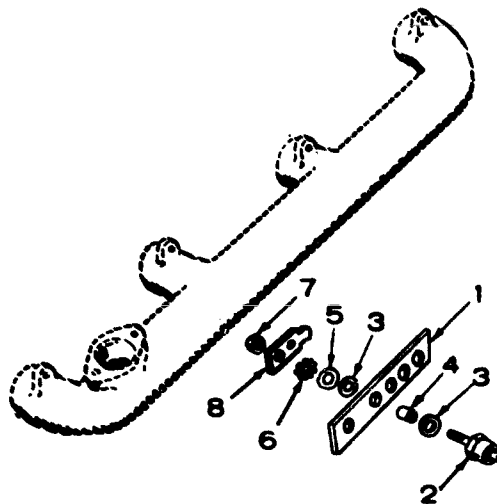
**NOTE:** For Components Contact your nearest Twin Disc clutch dealer. Racine, Wisconsin 53403

# **OPTIONAL STARTER PARTS**



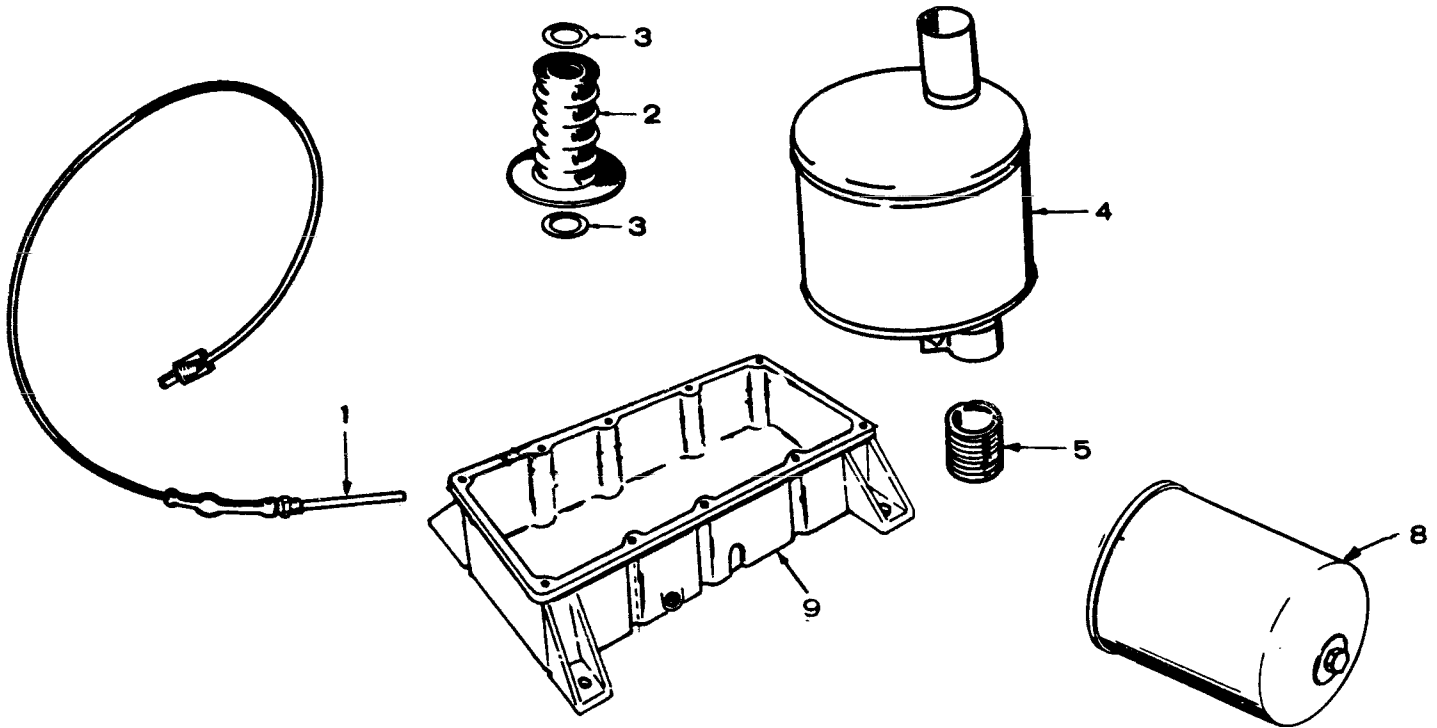
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
	191-0443	1	24 Volt
1	191-0713	1	Armature
2	191-0432	1	Clutch
3	191-1023	1	Head Assembly, Commutator End
4	191-1043	1	Coil Package, Field
5	191-1042	1	Plate Assembly, Brush
6	191-1020	1	Spring Set, Brush (Set of 4)
7	191-1263	1	Connector Package
8	191-0497	1	Bearing (Bronze), Drive End
9	191-1027	1	Spring, Plunger
10	191-1028	1	Core Assembly, Moving
11	191-0715	1	Switch, Solenoid
12	191-1029	1	Yoke Parts Package
13	191-1030	1	Stop and Lock Ring Package, Pinion
14	191-1031	1	Thrust Washer Package, Armature (Use as Required)
15	191-0714	1	Brush Set, Service
16	191-1032	1	Yoke
17	191-0468	1	Cover, Solenoid
18	191-1134	1	Boot, Rubber - Part of Moving Core Assembly

# **OPTIONAL HIGH AIR TEMPERATURE SWITCH**



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	309-0195	1	Bracket, Switch Mounting
2	SWITCH, HIGH AIR TEMPERATURE		
	309-0196	1	Use W/O Indicator Lights
	309-0206	1	Use With Indicator Lights
3	508-0126	2	Insulator, Washer
4	508-0127	1	Insulator, Sleeve
5	526-0021	1	Washer, Flat (17/64" ID x 3/4" OD x 1/16" Thk)
6	856-0006	1	Washer, Lock - ET (1/4")
7	862-0001	1	Nut, Hex (1/4-20)
8	332-0876	1	Terminal, Ground

## MISCELLANEOUS OPTIONAL PARTS



REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
1	102-0558	1	Heater, Oil Base
2	306-0193	1	Cover, Stop Solenoid Plunger
3	518-0218	2	Ring, Retaining - Stop Solenoid Plunger Cover
4	155-0824	1	Muffler, Exhaust
5	505-0220	1	Nipple, Exhaust
8	122-0193	1	Filter, Oil (Heavy Duty) 5-3/4" long
9	102-0482	1	Base, Oil (used w/oil base heater)

## SPEC. PARTS DATA INDEX NO. 117

MODEL	SPEC.	FICHE LOCATION
DJC-MS	1V	A1
DJC-MS	28V	A2
DJC-MF	1008V	A3
DJC-MS	1612V	A4
DJC-MS	1832V	A5
DJC-MS	1918V	A6
DJC-MS	2315T	A7
DJC-MF	2320V	A8
DJC-MF	2407V	A9
DJC-MF	2421V	A10
DJC-MS	2422V	A11
DJC-MS	2423V	A12
DJC-MS	2445V	A13
DJC-MS	2450V	A14
DJCM-MS	2450V	B1
DJC-MF	2462V	B2
DJC-MF	2518V	B3
DJC-MS	2532V	B4
DJC-MF	2556V	B5
DJC-MS	2562V	B6
DJC-MF	2564V	B7
DJC-MF	2582V	B8
DJC-MS	2587V	B9
DJC-MF	2601V	B10
DJC-MF	2605V	B11
DJC-MF	2611V	B12
DJC-MF	2632V	B13
DJC-MS	2650V	B14
DJC-MS	2651V	C1
DJC-MF	2654V	C2
DJC-MF	2696V	C3
DJC-MS	2723V	C4
DJC-MS	2815V	C5
DJC-MS	2782V	C6
DJC-MF	2836V	C7
DJC-MF	3045V	C8
DJC-MS	3059V	C9
DJC-MF	3062V	C10
DJC-MS	3063V	C11
DJC-MS	3118V	C12
DJC-MS	3160V	C13
DJC-MF	3172V	C14
DJC-MF	3185V	D1
DJC-MF	3198V	D2
DJC-MS	3204V	D3
DJC-MS	3228V	D4
DJC-MS	3258V	D5
DJC-MS	3301V	D6
DJC-MS	3313V	D7
DJC-MS	3315V	D8
DJCM-MS	3367V	D9



<u>MODEL</u>	<u>SPEC.</u>	<u>FICHE</u>	<u>LOCATION</u>
DJC-MS	3445V	117A	D10
DJC-MF	3502V	117A	D11
DJC-MS	3531V	117A	D12
DJC-MS	3541V	117A	D13
DJC-MF	3554V	117A	D14
DJC-MS	3584V	117A	E1
DJC-MF	3585V	117A	E2
DJC-MS	3630V	117A	E3
DJC-MS	3635V	117A	E4
DJC-MS	3652V	117A	E5
DJC-MF	3660V	117A	E6
DJC-MS	3686V	117A	E7
DJC-MS	3690V	117A	E8
DJC-MF	3698V	117A	E9
DJC-MS	3702V	117A	E10
DJC-MF	3725V	117A	E11
DJC-MS	3726V	117A	E12
DJC-MF	3728V	117A	E13
DJCM-MS	3776V	117A	E14
DJC-MS	3803V	117A	F1
DIC-MS	3845V	117	G1

SPECIAL PARTS LIST FOR MODEL DJC-MS SPEC 3845V  
 FOR STANDARD PARTS REFER TO CATALOG 967-0252 KEY NO. -  
 OPTIONAL GROUPS IN CATALOG ARE LISTED BY GROUP NO. BELOW WHEN USED.

PART NO.	QTY.	DESCRIPTION	PART NO.	QTY.	DESCRIPTION
Manufactured For: Lighbourn					
110-2940	2	Head Assembly, Cylinder (Refer To Standard Head Assembly For Components, Except Parts Marked *)			
110-2941	2	*Head, Cylinder (Less Valves), (Includes Parts Marked #)			
110-1869	4	*#Guide, Valve - Intake			
110-1268	8	*#Seat, Valve			
110-1870	4	*#Guide, Valve - Exhaust			
110-1871	4	*Valve, Intake			
509-0132	4	*Seal, Oil - Intake Valve			
502-0281	2	*Connector, Inverted Male - Oil Line			
520-0011	4	*Stud, Air Cleaner Manifold (5/16-24 X 1-7/16")			
333-0107	4	Plug, Glow (24 Volt)			
102-0482	1	Base, Oil			
102-0558	1	Heater, Oil Base			
140-1212	1	Adapter, Air			
505-0008	1	Plug, Slotted - Air Cleaner Adapter			
140-1260	1	Fitting, Restriction Indicator			
336-1408	1	Jumper, Preheater To Ground			
309-0206	1	Switch, High Air Temperature Cut Off			
191-0443	1	Motor, Starter - Complete (Refer To Standard Starter Motor For Components, Except Parts Marked °)			
191-0713	1	°Armature			
191-0715	1	°Switch, Solenoid			
307-0668	1	Solenoid, Stop			
306-0193	1	Cover, Stop Solenoid Plunger			
518-0218	2	Ring, Retainer - Stop Solenoid Plunger Cover			
508-0002	1	Grommet, Rubber - Housing (1/2" Hole)			
508-0117	1	Grommet, Rubber - Housing (1-3/8" Hole)			